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June 29, 2007

The Honorable Chairman and Members of the Hawaii Public Utilities Commission 465 South King Street Kekuanaoa Building, 1st Floor Honolulu, Hawaii 96813

Dear Commissioners:

Subject: Docket No. 2006-0386

HECO 2007 Test Year Rate Case - June 2007 Updates - Set #3

Enclosed is the third set of updates to Hawaiian Electric Company, Inc.'s ("HECO") 2007 test year estimates reflected in the Application, Direct Testimonies, Exhibits and Workpapers filed with the Commission on December 22, 2006. This set includes updates to the following:

- HECO T-6 Dan V. Giovanni
- HECO T-7 Robert K. S. Y. Young
- HECO T-8 Darren S. Yamamoto
- HECO T-14 Faye Chiogioji (revised update)
- HECO T-15 Lon K. Okada
- HECO T-17 Gayle T. Ohashi

Very truly yours,

(fn) Dean K. Matsuura
Director, Regulatory Affairs

Enclosure

cc: Division of Consumer Advocacy Sawvel & Associates, Inc. Utilitech, Inc. Dr. Khojasteh Davoodi Ralph Smith, Larkin & Associates

Randall Y.K. Young, Esq. (w/o enclosure)

JUNE 2007 UPDATE

Ref: D. Giovanni, HECO T-6, Production O&M Expense, Production Inventory.

HECO Response:

For HECO T-6 an adjustment to <u>increase</u> the 2007 Test Year Other Production Operations and Maintenance ("O&M") expense by \$703,000 is being made. This adjustment is the net of:

1.	Emissions Fee expense	(\$147,000)	
2.	Distributed Generator/Dispatchable Standby Generator expense	(\$55,000)	
3.	Ho'Okina expense	(\$42,000)	
4.	Environmental 316(b) expense	\$1,006,000	
5.	Generation Bidding expense	\$309,000	
6.	Administrator Position expense	\$38,000	
7.	Fuel Infrastructure expense	\$39,000	
8.	Engineer Retention Program expense	\$65,000	
9.	Distributed Generator Outside Service expense	(\$185,000)	
10.	Operator Overtime expense	(\$325,000)	
	Net Adjustment	<u>\$703,000</u>	

The adjustments are summarized in Attachment 1 to this update. The discussions below will provide greater detail on the updates and the financial impacts these changes have to the Other Production O&M 2007 test year estimate.

EMISSIONS FEE EXPENSE UPDATE

The adjustment to Emissions Fee expense is a <u>decrease</u> in Production Operations Non-labor expense of \$147,000 as shown in Attachment 1, page 1 and page 2.

The Emissions Fee recalculation was explained in HECO T-6 CA-IR-2, Attachment 7, page 3 and 4, and Attachment 7B. The total Emissions Fee was reduced by \$192,000 from \$1,090,000 to \$898,000. Because this fee was normalized, as discussed in HECO T-6, page 58-59, the normalized amount has been recalculated also and is reduced by \$45,000 from \$252,000 to \$207,000. The net of the Emissions Fee adjustment is \$147,000 (i.e., \$192,000 minus \$45,000) in Production Operations non-labor expense as shown in Attachment 1, page 2, of this update. HECO's updated test year estimate for emissions fee is \$691,000. The calculation for the Emissions Fee expense adjustment and normalization correction is shown in Attachment 2 to this update.

<u>DISTRIBUTED GENERATION/DISPATCHABLE STANDBY</u> GENERATION EXPENSE UPDATE

The expense adjustment for Distributed Generation (DG)/Dispatchable Standby Generation (DSG) O&M expense is a <u>decrease</u> in Production Operations Non-labor of \$55,000 due to the removal of DSG expenses as a result of the cancellation of the Kaiser DSG project. (Refer to Attachment 1, page 3, of this update and the responses to CA-IR-237 and CA-IR-337.) The expenses to be removed are all DSG non-labor expenses reflected for expense elements 201 and 501 on CA-IR-3, Attachment 1, page 2, and include the following:

 DG Maintenance DSG Incentive 		EE 501	\$ 6,800 \$24,600	
		EE 501		
3.	Phone	EE 501	\$ 3,200	

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4.	Annual Source Test	EE 501	\$ 3,000
5.	Catalyst	EE 201	\$ 8,300
6.	NCS Air Permit fee	EE 501	\$ 1,500
7.	DSG Monitoring Software	EE 501	\$ 5,000
8.	Refueling Outside Service	EE 501	\$ 2,200
		Total	<u>\$54,600</u>

No labor expense was included in HECO's 2007 test year expenses for DSG.

HO'OKINA EXPENSE UPDATE

The adjustment for Ho'okina expense is a <u>decrease</u> of \$42,000 in Production Operations

Non-labor as shown in Attachment 1, page 1 and page 4. The Ho'okina volunteer award

recognition program has been suspended as a result of implementing a targeted compensation

program as explained in HECO's response to CA-IR-69. The resulting reduction to the 2007 test

year Production O&M Non-labor expenses is a reduction of \$42,000. (Please refer to HECO
WP-101(G), page 887; HECO-1220; and Attachment 1, page 4, to this update.)

ENVIRONMENTAL 316(b) EXPENSE UPDATE

For HECO T-6, an adjustment to <u>increase</u> the 2007 Test Year expense for Production Operations Non-labor by the 3-year normalized amount of \$1,006,000 will be made for Clean Water Act Section 316(b) compliance expenses. (Refer to Attachment 1, page 5, to this update.)

In 2004, the Environmental Protection Agency (EPA) established national Clean Water Act Section 316(b) Phase II rules regulating the use of cooling water intake systems by large, existing power producing facilities, including HECO's Kahe, Waiau and Honolulu generating facilities. These rules were intended to ensure that the location, design, construction and

capacity of cooling water intake structures reflect the best technology available to protect aquatic organisms from being killed or injured by impingement or entrainment.

Until May 1, 2007, Clean Water Act (CWA) Section 316(b) environmental compliance costs for Kahe, Waiau and Honolulu power plants were accumulating in a Power Supply preliminary engineering work order number (PEWON) account in expectation that capital projects would be needed and that these expenses would likely be included in such capital projects. Accumulated charges include the following amounts:

1. January 18, 2005 through April 30, 2007

a.	Honolulu Power Plant	\$269,000
b.	Waiau Power Plant	\$314,000
c.	Kahe Power Plant	\$279,000
	Total	\$861,000 (See Attachment 3 to this update)

2007 PEWON account costs (i.e., collected from January 1, 2007 to April 30, 2007 and included in the \$861,000 above) to be cleared in 2007 amount to \$311,000. (See Attachment 4 to this response.)

Due to a decision by the United States Court of Appeals for the Second Circuit on January 25, 2007, existing CWA Section 316(b) compliance options were remanded back to the Environmental Protection Agency (EPA) for further consideration. EPA was granted an extension in order to request a rehearing by the Second Circuit or to appeal the court's decision to the United States Supreme Court. Accordingly, the EPA has suspended the CWA Section 316(b) rule and instructed state regulators to use Best Professional Judgment (BPJ) in managing CWA Section 316(b) requirements under affected facilities' National Pollutant Discharge

Elimination System (NPDES) permits. Due to the uncertainties raised by the Second Circuit's decision, EPA's pending response, and the state regulators' (i.e., Hawaii State Department of Health (HDOH)) forthcoming actions, HECO is unable to predict which compliance options may be necessary or applicable at HECO's facilities. However, since the HDOH incorporated EPA's CWA Section 316(b) compliance requirements into HECO's existing NPDES permits for the Kahe, Waiau and Honolulu Power Plants, HECO is still obligated to comply with existing permit conditions. HECO intends to request permit revisions with HDOH and negotiate BPJ provisions until such time as the EPA takes final action in response to the court's decision.

On April 3, 2007, an accounting decision was made by HECO to transfer the accumulated CWA Section 316(b) costs as of April 30, 2007 from the Power Supply PEWON account to the Power Supply clearing account. In addition, effective May 1, 2007, all future CWA Section 316(b) compliance costs for Kahe, Waiau, and Honolulu Power Plants will be captured as a Production O&M Non-labor expense. These compliance costs were not previously forecasted as a Production O&M expense. Compliance work in 2007, 2008, and 2009 is designed to be compliant with HECO's best understanding of CWA Section 316(b) requirements in the wake of the Second Circuit's decision, and was developed in consultation with HECO's consultants, EPRI Solutions and Tenera Environmental.

Projected outside consulting costs for CWA Section 316(b) permit compliance and permit modification negotiations with HDOH at Kahe, Waiau and Honolulu Power Plants, for the period May 1 to December 31, 2007, are currently estimated to be \$738,000 (see Attachment 5). These activities include fish and invertebrate impingement and entrainment monitoring, data processing and evaluation, closed cycle cooling evaluation, best professional judgment

evaluation and fish protection technologies, and operational measures reviews. Projected compliance activities for 2008 and 2009 include continued impingement and entrainment monitoring, data analysis, fish protection technologies research and pilot tests, dominant species (fish and invertebrates) life history research, and track/comment on EPA proposed rules. (See Attachment 6 to this update for cost details.) Thus, the total expense directly related to 2007 is \$1,049,000, including \$311,000 for 2007 PEWON account costs (for January 1, 2007 to April 30, 2007) to be cleared in 2007, and \$738,000 (estimated for May 1 to December 31, 2007.) Expenses for 2007, 2008, and 2009 were averaged to determine the 3-year normalized amount of \$1,006,000 for Environmental 316(b) expenses, as shown in Attachment 6.

GENERATION BIDDING DIVISION EXPENSE UPDATE

The Generation Bidding Division expense update is an <u>increase</u> of \$309,000 in Production Operations. The Labor total is \$66,000 and the Non-labor is \$243,000, as shown in Attachment 1, page 6.

As stated in HECO's response to CA-IR-68, on January 22, 2007, the Power Supply Process Area implemented a reorganization to create the Power Supply System Planning Department and reorganize functions in the Power Supply Services Department. The objectives for the reorganization were three fold. First, it was necessary to dedicate resources to support the implementation of the Commission's Decision and Order No. 23121, dated December 8, 2006 (Docket No. 03-0372) adopting the Framework for Competitive Bidding ("Framework") for the acquisition of new generating resources. Second, with the Company initiative to procure biofuels for the proposed Campbell Industrial Park Generating Unit and other generating units on the MECO and HELCO systems, the reorganization creates the focused team necessary to

manage existing and new fuel infrastructure and systems, new supply relationships and the increased operational complexity associated with the requirements of a new fuel. Third, financial administration of O&M expenses is being consolidated in one group in the PSO&M Department, where the majority of the O&M expenses are incurred.

System Planning Department

As a result of the reorganization, the Generation Planning Division and the Transmission Planning Division moved from the Power Supply Services Department to the new System Planning Department, and a new division called Generation Bidding was created within the System Planning Department. The position of Manager, System Planning Department, was filled by the internal transfer of the then Manager of the Power Supply Services Department. The organizational structure of the new System Planning Department is depicted in Attachment 1 to the response to CA-IR-68.

The new Generation Bidding Division will lead the competitive bidding effort for HECO, HELCO, and MECO, which will include the development and implementation of new competitive bidding processes and activities to ensure that the acquisition of new generating resources complies with the Framework. The Generation Bidding Division will coordinate the efforts of various cross-functional teams in the implementation of competitive bidding processes and will interface with the Commission, the Consumer Advocate, independent observers, and prospective bidders in these processes.

The new Generation Bidding Division will consist of a Generation Bidding Director and two staff project managers. All three of these positions are new, for a net gain of three (3) new positions in the Power Supply Process Area within the System Planning Department.

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The net adjustment to the 2007 test year estimate of Other Production O&M Expense – Labor and Non-labor for the new Generation Bidding Division (i.e., expenses associated with a net gain of three new positions in the System Planning Department, and the anticipated normalized expense for outside services to support required competitive bidding activities) is \$309,000. This net adjustment consists of Labor and Non-labor components as shown below.

Net Adjustment to 2007 Other Production O&M Expense (for Competitive Bidding)

Labor \$ 66,000

Non-labor <u>\$243,000</u>

Total \$309,000

The original 2007 test year estimate included \$175,000 for Non-labor expense. This estimated expense was included in the 2007 budget for the Power Purchase Division of the Power Supply Services Department (see HECO response to CA-IR-239, and HECO response to CA-IR-2, HECO T-6, Attachment 12B, page 2). The updated 2007 test year estimate, including the net adjustment for competitive bidding, is summarized below:

2007 Other Production O&M Expense including Net Adjustment (for Competitive Bidding)

Labor \$ 66,000

Non-labor \$418,000 (including \$175,000 in the original 2007 test year estimate)

Total \$484,000

The derivations of these amounts are described in greater detail in the subsections below.

As described, these values were derived in three steps. First, the estimates for 2007 Other

Production Expenses - Labor were updated and adjusted. Second, the estimates for 2007 Other

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Production Expense – Non-Labor were updated and adjusted. Third, the updated and adjusted 2007 Other Production Expense - Non-Labor were normalized for the 2007 to 2009 time period. Other Production O&M Expense - Labor (Updated and Adjusted 2007). The Generation Bidding Director position was filled effective June 2007, and the two project manager positions are expected to be filled by July 2007. For purposes of simplification, the HECO Other Production O&M Expense – Labor of \$66,000 is based on one-half year labor expense forecast in 2007 for the three new positions in the Generating Bidding Division, net of costs allocated to MECO and HELCO. (See Attachment 7 to this update.) The division will require a staff of at least two project managers in addition to the Director, as it is anticipated that multiple competitive bidding processes across HECO, HELCO and MECO may progress concurrently. For example, as discussed in Section 4.2.5 in the HECO IRP-3 Evaluation Report filed with the Commission on May 31, 2007 (Docket No. 03-0253), HECO announced its intent to issue on or about year-end 2007 a Request for Proposals ("RFP") for a block of approximately 100 MW of non-firm renewable energy. Preliminary work on this effort is already underway. At the same time, as a part of MECO's Action Plan discussed in Section 12.2.5.1 of the MECO IRP-3 Plan filed with the Commission on April 30, 2007 (Docket No. 04-0077), MECO is immediately proceeding with steps to conduct a competitive bidding process for the commercial operation of the next two blocks of firm capacity needed in 2011 and 2013, respectively. Staff of the new Generation Bidding Division will be leading both of these efforts.

The Other Production O&M Expense – Labor of \$66,000 takes into account that fifty percent (50%) of the combined labor expense for the three new positions will be charged to HECO, and forty percent (40%) to MECO and ten percent (10%) to HELCO via inter-company

billing for direct staff support of the aforementioned MECO competitive bid. Further, with competitive bidding as the required mechanism for acquiring or building new energy generation in Hawaii, additional RFPs will undoubtedly follow these initial two efforts as the Integrated Resource Planning process continues to identify and scope future resource needs and related RFPs for all three of the HECO utilities.

For the Other Production O&M Expense – Labor, the recurring expenses are estimated to be \$132,000 (\$2007), but no annualization adjustment is being applied. Relative to the original test year estimate for 2007 Other Production O&M Expense – Labor of zero, the net adjustment is an increase of \$66,000.

Other Production O&M Expense – Non-Labor (Updated and Adjusted 2007). The original 2007 test year estimate for Other Production O&M Expense – Non-labor associated with competitive bidding activities is the previously mentioned \$175,000. At the time the 2007 test year estimate was being developed in 2006, the Commission had not yet adopted the Framework, and accordingly, HECO had not yet implemented the reorganization to create the System Planning Department and dedicated Generation Planning Division within that department. While there was uncertainty regarding the Commission's resolution of specific elements of the competitive bidding process, HECO anticipated the need to hire a consultant to assist in implementing the mandated process and estimated the expense for that effort at \$175,000.

Following the Commission's adoption of the Framework in December 2006, the Power Supply process area was subsequently reorganized to include a new Systems Planning Department and a Generation Bidding Division within that department. The 2007 Other Production O&M non-labor expense for competitive bidding was reviewed and increased by

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\$120,000 from \$175,000 to \$295,000. (See Attachment 8 to this update.) The updated and adjusted 2007 Other Production O&M Expense – Non-labor for competitive bidding is summarized as follows:

<u>Updated and Adjusted 2007 Other Production Expense – Non-labor (for Competitive Bidding)</u>

Framework Requirements	\$ 25,000
Outside Consultant	\$150,000
Outside Legal	\$ 60,000
Independent Observer	\$ 60,000
Updated and Adjusted 2007 Non-labor Expense	\$295,000

These amounts are net of estimated billings to MECO and HELCO.

Normalized Other Production O&M Expenses – Non-labor for Competitive Bidding. The competitive bidding process mandated by the Commission's Framework adopted in December, 2006, is being launched in 2007 and is expected to be fully operational for HECO, MECO, and HELCO over the 2007 to 2009 time period.

The Other Production O&M Expense – Non-Labor is estimated to be different in each year, however, and is normalized by averaging the estimated annual estimated expenses for the three-year period. The Other Production O&M Expense – Non-Labor is comprised of four major components (i.e., Framework Requirements, Outside Consultant, Outside Legal, and Independent Observer) and the normalization treatment for each is presented below.

Framework Requirements. The Framework Requirements item consists of outside
consulting and/or legal expenses to meet requirements directed by Commission order and/or
in the Framework as a prerequisite to initiate the competitive bidding mechanism in Hawaii

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(e.g. HECO's preparation and submission for Commission approval of (1) proposed tariffs governing interconnection and transmission upgrades, (2) a proposed code of conduct, and (3) a list of candidate Independent Observers). These start-up activities will be completed in 2007 and will have value over the normalization period. The updated and adjusted 2007 Other Production Expense – Non-labor for the Framework Requirements is \$25,000. (See Attachment 8; sum of \$15,000 for Outside Consultant and \$10,000 for Outside Legal.) The estimated expense is zero for this item in years 2008 and 2009. Thus, the normalized 2007 test year estimated expense for Framework Requirements is \$8,000 (i.e. \$25,000/3), and the normalization adjustment for Framework Requirements in 2007 is minus \$17,000 (i.e., \$8,000 - \$25,000 = -\$17,000)

- 2. Outside Consultant. HECO is a relatively small electric utility company with limited inhouse resources and anticipates the need to rely on outside consulting services to effectively and efficiently implement the competitive bidding processes. As noted previously, HECO is initiating action to conduct an RFP seeking approximately 100 MW of non-firm renewable energy and has contracted with an outside consultant experienced in such matters to assist and advise in the process. The updated and adjusted 2007 Other Production Expense Non-labor for Outside Consultant expenses is \$150,000. HECO similarly estimated an annual expense of \$150,000 in 2008 and 2009 for Outside Consultant expenses in 2007 is zero. (See Attachment 8 to this update.)
- 3. <u>Outside Legal.</u> HECO anticipates that outside legal services will be required in many activities throughout the competitive bidding process, such as but not limited to preparation

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of power purchase and other forms of contract, review of RFP material, advice on communication with bidders and regulatory compliance, and preparation of regulatory filings and representation in related proceedings. The updated and adjusted 2007 Other Production Expense – Non-labor for Outside Legal expenses is \$60,000. HECO estimates an annual expense of \$150,000 in 2008 and 2009 for Outside Legal expenses. Thus, the normalized 2007 test year estimated expense for Outside Legal expenses is \$120,000 (i.e., (\$60,000 + \$150,000 + \$150,000)/3 = \$360,000/3) and the normalization adjustment for Outside Legal expenses is plus \$60,000 (i.e., \$120,000 minus \$60,000). (See Attachment 8 to this update.)

4. Independent Observer. The role of the Independent Observer is set forth in Section III.C. of the Framework (at pages 13 though 16). Under the Framework, an Independent Observer is required whenever the utility or its affiliate seeks to advance a project proposal (i.e., in competition with those offered by bidders) in response to a need that is addressed by its RFP, or when the Commission otherwise determines. HECO anticipates utilizing an Independent Observer for its proposed 100 MW non-firm renewable energy RFP, although it is not anticipated that HECO or its affiliate will bid, to among other matters assist and advise in the conduct of this new process and report on the progress and results to the Commission. The updated and adjusted 2007 Other Production Expense – Non-labor for the Independent Observer expense is \$60,000. HECO estimates an annual expense of \$180,000 in 2008 and \$180,000 in 2009 for the Independent Observer expense. Thus, the normalized 2007 test year estimated expense for the Independent Observer is \$140,000 (i.e., (\$60,000 + \$180,000 + \$180,000)/3 = \$420,000/3) and the normalization adjustment for the

Independent Observer expense is plus \$80,000 (i.e. \$140,000 minus \$60,000). (See Attachment 8 to this update.)

Based on the analyses described above, the Normalized 2007 Other Production O&M Expense – Non-labor for Competitive Bidding activities is \$418,000. The original 2007 test year estimate included \$175,000 for Other Production O&M Expense – Non-labor for competitive bidding. The net adjustment to the original 2007 test year estimate for Other Production O&M Expense – Non-labor for competitive bidding is \$243,000 (i.e., \$418,000 minus \$175,000). (See Attachment 7 to this update.)

Normalized 2007 Other Production Expense – Non-labor (for Competitive Bidding)

Framework Requirements	\$ 8,000
Outside Consultant	\$150,000
Outside Legal	\$120,000
Independent Observer	\$140,000
Normalized 2007 Non-labor Expense	\$418,000
Less Original 2007 Non-labor Expense Estimate	- <u>\$175,000</u>
Adjustment (net)	<u>\$243,000</u>

ADMINISTRATOR POSITION EXPENSE UPDATE

The expense adjustment for the Administrator position is an <u>increase</u> of \$38,000 in Production O&M Operations Labor, as shown in Attachment 1, page 1 and page 7.

Financial administration of O&M expenses is being consolidated in one group in the PSO&M Department, where the majority of the O&M expenses are incurred. Financial administration of O&M expenses for the Power Supply ("PS") process area was previously

shared among Administrators in the Power Supply Engineering and Power Supply Services

("PSS") Departments, respectively, and a Budget Analyst in the PSO&M Department. As part

of the organizational changes, financial data will no longer be consolidated for the PSO&M and

PSS Departments, however, will be accounted for and reported upon separately for the PSO&M,

PSS, System Planning, Environmental, and Power Supply Engineering Departments. This will

be chiefly accomplished by the new Financial Administration group in the PSO&M Department.

This group will also be responsible for SOX compliance across the PS process area, and for

compliance with Management Accounting policies and guidelines including quarterly and yearend closings and accruals.

The new Financial Administration group in the PSO&M Department will be comprised of the following three positions: Lead Financial Administrator, Administrator, and Budget Analyst. The Lead Financial Administrator position is being filled by the internal transfer of the current Administrator of the PSS Department. The Lead Financial Administrator will have overall responsibility for the performance of the group and will be specifically responsible for financial administration of O&M expenses for the PSS and System Planning Departments. The Administrator position in the Financial Administration group in the PSO&M Department is new. Recruitment is in progress to fill this position and it is expected to be filled approximately July 1, 2007. The Administrator would have specific responsibility for financial administration of O&M expenses for the PSO&M and PS Environmental Departments. The Budget Analyst position is unchanged. The Budget Analyst's principal responsibilities include tracking and analysis of maintenance expenses for the PSO&M Department. The Administrator in the PS Engineering Department is also not changed, however, duties previously performed by this

Administrator for the Environmental Department are being transferred to the new Administrator in the new Financial Administration group in the PSO&M Department. The Administrator in the PS Engineering Department will concentrate his/her duties on the administration and analysis of capital and O&M expenses incurred by the PS Engineering Department.

The only adjustment to the 2007 test year estimate for Other Production Labor Expense attributable to this portion of the reorganization of the Power Supply Process Area is \$38,000 for the new Administrator in the PSO&M Department. (See Attachment 7 to this update.)

FUEL INFRASTRUCTURE EXPENSE UPDATE

The expense adjustment for Fuel Infrastructure is an <u>increase</u> of \$39,000 in Production O&M Maintenance Labor, as shown in Attachment 1, page 1 and page 8.

With the Company initiative to procure biofuels for the proposed Campbell Industrial Park
Generating Unit and other generating units on the MECO and HELCO systems, the Power
Supply Process Area reorganization creates the focused team necessary to: manage existing and
new fuel infrastructure and system; assure regulatory compliance for the operation and
maintenance of fuel pipeline; develop and manage new fuel supply relationships, and provide
direction for the increased operational complexity associated with the requirements of new
fuel(s).

In the reorganization of the Power Supply Process Area, the Power Supply Services

Department retained the Fuels Resources and Power Purchase Divisions. The reorganization also resulted in the creation of a new Fuels Infrastructure Division within the Power Supply Services

Department. The new organizational structure of the Power Supply Services Department is also depicted in Attachment 1 to the response to CA-IR-68. That depiction included three divisions

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each headed by a director: (1) Power Purchase; (2) Fuels Resources, and (3) Fuels
Infrastructure, plus an Administrator. As described earlier, however, the Administrator position
has been transferred to the consolidated Financial Administration group in the PSO&M
Department.

The position of Manager in the Power Supply Services Department was filled by the internal transfer of the then Manager of Operations Strategic Planning (who at the time was a direct report to the Senior Vice President of Operations).

The new Fuels Infrastructure Division was created to lead the HECO initiative to procure biofuels for the proposed Campbell Industrial Park Generating Unit and other generating units on the MECO and HELCO systems, and to facilitate fuel asset management and ensure compliance with the policies, requirements, and regulations regarding the various fuel delivery and storage infrastructure used by HECO, MECO, and HELCO. The new Fuels Infrastructure Division will consist of a Fuels Infrastructure Director and two staff engineers. One staff engineer position was transferred from the Power Supply Engineering Department and one position was reassigned from the Fuels Resources Division. The Fuels Infrastructure Director position is new, for a net gain of one new position in the Power Supply Process Area within the Power Supply Services Department. The new Fuels Infrastructure Director position was filled, effective May 28, 2007. The staff engineering position hiring process has begun and should be complete by the end of August 2007. Power Supply Operations and Maintenance non-labor expenses for this work was included in the 2007 test year estimate and is not expected to change as a result of this reorganization. The adjustment to the 2007 test year estimate for Other Production Labor

Expense attributable to the new Fuel Infrastructure Director is estimated to be \$39,000, which is net of estimated billings to MECO and HELCO. (See Attachment 7 to this update.)

ENGINEER RETENTION PROGRAM EXPENSE UPDATE

The expense adjustment for the Engineer Retention Program is an <u>increase</u> of \$65,000, of which \$15,000 is in Production Operations Labor and \$50,000 in Production Maintenance Labor. (See Attachment 1, page 1 and page 9.)

The Engineering Retention program was approved after the 2006 Budget was approved and partially funded by the Ho'okina program. This program adjustment resulted in permanent changes to adjusted Engineers' salaries (see Responses to CA-IR-69 and CA-IR-297 and also refer to HECO's June 2007 Update, HECO T-10, Attachment 2, page 1).

DISTRIBUTED GENERATOR OUTSIDE SERVICE EXPENSE UPDATE

The expense adjustment for the Distributed Generator Outside Service expense is a <u>decrease</u> of \$185,000 in Production Operations Labor, as shown in Attachment 1, page 1 and page 10. As described in HECO's responses to CA-IR-237 and CA-IR-337, the actual expense in the Outside Service/Other cost category is significantly below the 2007 test year expense projection of \$245,000. The actual 2007 expenses for refueling contract services, as of the end of May 2007, total \$26,000. The annualized amount for refueling contract services in 2007 is now expected to be \$60,000. The difference of \$185,000 (\$245,000 minus \$60,000) makes up the downward adjustment in Distributed Generator Outside Service expense.

OPERATOR OVERTIME EXPENSE UPDATE

The expense adjustment for Operator Overtime expense is a <u>decrease</u> of \$325,000 in Production Operations Labor expense, as shown in Attachment 1, page 1 and page 11. The calculation of the decrease is described in detail in HECO's response to CA-IR-232.

SUMMARY

As indicated in Attachment 1, page 1, the net effect of these adjustments is an <u>increase</u> in the 2007 test year estimate for Production Operations and Maintenance expense of \$703,000.

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UPDATE		14,036 15,690	29,726	15,308	39,199	29,344	68,925
TOTAL		(206) 820	614	68 0	89	(117)	703
Oper OT ADJUST		(325)	(325)	00	0	(325)	(325)
DG-O/S ADJUST		0 (185)	(185)	00	0	0 (185)	(185)
EngRetProg ADJUST	Towns to the second sec	ည်	15	20	920	හි ර	65
Fuel Infra ADJUST		00	0	စ္ကဝ	39	<u>6</u> 0	88
Admin Pos Fuel Infra		88.0	88	00	0	ж С	88
Gen Bid ADJUST		66 243	606	00	0	88 243	309
Env 316(b) ADJUST		0 1,006	1,006	00	0	1,006	1,006
Hookina ADJUST	ariam inima ne a nina	(42)	(42)	00	0	0 (42)	(42)
DG-DSG ADJUST		0 (55)	(99)	00	0	0 (55)	(22)
Emis Fee ADJUST		0 (147)	(147)	00	0	0 (147)	(147)
DIRECT		14,242	29,112	15,219 23,891	39,110	29,461 38,761	68,222
NORM		(221)	(221)	(598)	(598)	0 (819)	(819)
BUDGET BUD ADJ NORM	NSE	(395)	(392)		0	0 (392)	(392)
BUDGET	A M EXPE	14,242 15,483	29,725	MAINT 15,219 24,489	39,708	TOTAL 29,461 39,972	69,433
	D. Giovanni PRODUCTION O & M EXPENSE	PRODUCTION OPER LABOR 14 NON-LABOR 15	TOTAL	PRODUCTION MAINT LABOR 15 NON-LABOR 24	TOTAL	PRODUCTION - TOTAL LABOR 29.4 NON-LABOR 39.9	TOTAL

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 1 PAGE 2 OF 11

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

<u>ADJUST</u>
(147)
(147)
(147)
(**************************************
(147)
(147)

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 1 PAGE 3 OF 11

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Distributed Generation - Customer Dispatchable Standby Generator (DSG)

<u>ADJUST</u> D. Giovanni PRODUCTION O & M EXPENSE PRODUCTION OPER LABOR **NON-LABOR** (55)TOTAL (55)PRODUCTION MAINT LABOR **NON-LABOR** TOTAL **PRODUCTION - TOTAL** LABOR **NON-LABOR** (55)TOTAL (55)

NOTE: See DSG cost in CA-IR-337

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HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Ho'okina Award	
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR	
NON-LABOR	(42)
TOTAL	(42)
PRODUCTION MAINT LABOR NON-LABOR	
TOTAL	
PRODUCTION - TOTAL LABOR NON-LABOR	(40)
NON-LADOR	(42)
TOTAL	(42)

NOTE: See HECO-1220, HECO-WP-101(G), page 887.

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HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Environmental 316(b)	
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR	1 000
NON-LABOR	1,006
TOTAL	1,006
PRODUCTION MAINT LABOR NON-LABOR	
TOTAL	
PRODUCTION - TOTAL LABOR	
NON-LABOR	1,006
TOTAL	1,006

NOTE: See HECO-1220

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 1 PAGE 6 OF 11

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Generation Bidding Division	
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR NON-LABOR	66 243
TOTAL	309
PRODUCTION MAINT LABOR NON-LABOR	
TOTAL	
PRODUCTION - TOTAL LABOR NON-LABOR	66 243
TOTAL	309

NOTE: Reclass G/L code adjustments reported as A&G costs.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 1 PAGE 7 OF 11

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Administrator Position	
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR NON-LABOR	38
TOTAL	38
PRODUCTION MAINT LABOR NON-LABOR	
TOTAL	
PRODUCTION - TOTAL LABOR NON-LABOR	38
TOTAL	38

NOTE: Administrator's Labor Cost is processed as clearing cost. Therefore, most of the cost is recorded in A&G.

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HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Fuels Infrastructure Division	ę
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR NON-LABOR	
TOTAL	
PRODUCTION MAINT LABOR NON-LABOR	39
TOTAL	39
PRODUCTION - TOTAL LABOR NON-LABOR	39
TOTAL	39

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 1 PAGE 9 OF 11

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Engineering Retention Program	
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR NON-LABOR	15
TOTAL	15
PRODUCTION MAINT LABOR NON-LABOR	50
TOTAL	50
PRODUCTION - TOTAL LABOR NON-LABOR	65
TOTAL	65

NOTE: See HECO T-10 June 2007 Update, page 1 and Attachment 1, page 5.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 1 PAGE 10 OF 11

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Distributed Generation - Outside	
Services Adjustment	
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR NON-LABOR	(185)
NON-EABOR	(100)
TOTAL	(185)
PRODUCTION MAINT LABOR NON-LABOR	
TOTAL	
PRODUCTION - TOTAL LABOR NON-LABOR	(185)
TOTAL	(185)

NOTE: See CA-IR-337 for explanation

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 1 PAGE 11 OF 11

HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE (\$1000S)

Operation - OT Adjustment	
	<u>ADJUST</u>
D. Giovanni PRODUCTION O & M EXPENSE	
PRODUCTION OPER LABOR NON-LABOR	(325)
TOTAL	(325)
PRODUCTION MAINT LABOR NON-LABOR	
TOTAL	
PRODUCTION - TOTAL LABOR NON-LABOR	(325)
TOTAL	(325)

NOTE: See CA-IR-232, Attachment 1, for detailed calculations.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 **ATTACHMENT 2** PAGE 1 OF 1

Hawaiian Electric Company, Inc. 2007 RATE CASE

OTHER PRODUCTION O&M EXPENSE ADJUSTMENT EMISSIONS FEE

(\$ Thousands)

	(A)	(B)	(C)
	Operations Non-Labor	Maintenance Non-labor	<u>Total</u>
Change in Emissions Fee Budget Amoun	<u>ıt</u>		
Emissions Fees- at Direct (1)	1,090	0	1,090
Updated Emissions Fees (2)	898	0	898
Total Budget Adjustment	-192	0	-192
2007 Test Year Expense			
TY Emissions Fees - at Direct (3)	838	0	838
Updated TY Emissions Fees (4)	691	0	691
Total TY Emissions Fee Reduction	-147	0	-147
Change in Emissions Fee Normalization	Amount		
Normalization at Direct (5)	-252	0	-252
Updated TY Normalization (6)	-207	0	-207
Total Normalization Adjustment	45	0	45
Total Emissions Fee Adjustment (7)	-147	0	-147

Notes:

- (1) Per HECO T-6, pages 58-59 and HECO-625.
- (2) Per CA-IR-2, Attachment 7, page 3, revised Emission Fee = \$898.
- (3) TY Emissions Fee at Direct = $$1,090 \times (10/13) = 838 .
- (4) Updated TY Emissions Fee = $\$898 \times (10/13) = \691 .
- (5) Normalization at Direct = $(\$1090 ((10/13) \times \$1,090) = \$252)$.
- (6) Updated Normalization = $($898 ((10/13) \times $898) = $207)$
- (7) Total Emissions Fee Adjustment = Sum of Total Budget Adj and Total Normalization Adj.

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HAWAIIAN ELECTRIC COMPANY INC. 2007 RATE CASE

Costs Incurred for 316(b) Work for the period 2005-Apr. 2007

		Honolulu	Waiau Kahe		
		HP002066	HP002067	HP002068	Totals
2005	-				
	150	\$2,992	\$3,467	\$4,075	\$10,534
	155	\$373	\$423	\$523	\$1,319
Overheads		\$2,038	\$2,471	\$3,034	\$7,544
	501	\$56,850	\$56,782	\$57,335	\$170,966
		\$62,252	\$63,143	\$64,967	\$190,362
2006					
	150	\$4,039	\$11,412	\$4,595	\$20,046
	155	\$355	\$1,037	\$401	\$1,793
Overheads		\$2,522	\$8,711	\$2,889	\$14,122
	201	\$0	\$8,367	\$0	\$8,367
	205	\$0	\$118	\$0	\$118
	501	\$98,733	\$112,240	\$101,724	\$312,697
	520	\$801	\$801	\$801	\$2,404
	521	\$72	\$72	\$72	\$216
		\$106,521	\$142,759	\$110,483	\$359,763
Jan Apr. 20	07				
-	150	\$1,674	\$1,701	\$1,822	\$5,197
	155	\$49	\$53	\$56	\$158
Overheads		\$1,032	\$1,050	\$1,126	\$3,209
	501	\$97,095	\$104,574	\$100,037	\$301,707
	520	\$320	\$320	\$320	\$961
	521	\$14	\$14	\$14	\$41
		\$100,184	\$107,712	\$103,376	\$311,271
Totals					
	150	\$8,704	\$16,581	\$10,492	\$35,777
	155	\$776	\$1,512	\$981	\$3,269
Overheads		\$5,592	\$12,232	\$7,050	\$24,874
	201	\$0	\$8,367	\$0	\$8,367
	205	\$0	\$118	\$0	\$118
	501	\$252,677	\$273,596	\$259,096	\$785,370
	520	\$1,122	\$1,122	\$1,122	\$3,365
	521	\$85	\$85	\$85	\$256
		\$268,957	\$313,614	\$278,826	\$861,396

Note: Totals may not add exactly due to rounding.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 4 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY INC.

2007 HECO Rate Case

316(b) Work - Portion of the total PEWON cost representing cost incurred in 2007

	Honolulu	Waiau	Kahe	
	HP002066	HP002067	HP002068	Totals
150	\$1,673.52	\$1,701.36	\$1,822.01	\$5,196.89
155	\$48.77	\$52.53	\$56.26	\$157.56
Overheads	\$1,032.41	\$1,049.80	\$1,126.33	\$3,208.54
501	\$97,094.98	\$104,574.37	\$100,037.20	\$301,706.55
520	\$320.35	\$320.36	\$320.35	\$961.06
521	\$13.54	\$13.53	\$13.53	\$40.60
_	\$100,183.57	\$107,711.95	\$103,375.68	\$311,271.20
Lab & On-cost	\$2,754.70	\$2,803.69	\$3,004.60	\$8,562.99 3%

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HAWAIIAN ELECTRIC COMPANY INC. 2007 RATE CASE

CWA §316(b) - Outside Services Expense Projection for May 2007- Dec. 2007

Activity	Cost	Comment
316(b) monitoring - Kahe, Waiau, Honolulu	\$130,000	Estimate to complete first year monitoring and data processing; based on Tenera 04/04/07 estimate.
Extended monitoring - Kahe, Waiau, Honolul	\$388,575	Extended monitoring estimate for May-Dec 2007: Tenera 04/04/07 proposal prorated for 8 months = \$582,862 X (8/12) = \$388,575. Note: Estimate is based on current monitoring frequency of weekly impingment monitoring and biweekly entrainment monitoring.
Closed Cycle Cooling Evaluation	\$6,000	EPRI Solutions
Best Professional Judgment Evaluation	\$213,500	EPRI Solutions (includes 1st year data evaluation, BPJ eval, fish protection technologies and operational measures review, DOH meeting); Work to be completed by Dec-07.
Total	\$738,075	Total for Apr-07 to Dec-07

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-6 ATTACHMENT 6 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY INC. 2007 RATE CASE

Environmental 316(b) Cost

(In Thous)	300H	2000	2000		Normalized
	2007	2008	2009	Total	Over 3 Yrs
2007					
316(b) incurred 1/07-4/07	\$311			\$311	\$104
Monitoring- Tenera Est	\$130			\$130	\$43
Extended Monitoring- Tenera	\$389			\$389	\$130
Closed Cycle Cool Eval- EPRI	\$6			\$6	\$2
Best Prof Judge Eval- EPRI	\$214			\$214	\$71
2008					
Continue IM&E Eval*		\$583		\$583	\$194
Analyze/Eval 2nd Yr data		\$70		\$70	\$23
Comments to EPA		\$15		\$15	\$5
<u>2009</u>					
Continue IM&E Eval*			\$583	\$583	\$194
Analyze/Eval 2nd Yr data*			\$70	\$70	\$23
Research Fish Prot Tech			\$60	\$60	\$20
Pilot Tests Select Tech			\$500	\$500	\$167
Research Life History Fish and Invert			\$70	\$70	\$23
Comments to EPA on proposed rule			\$20	\$20	\$7
TOTAL	\$1,050	\$668	\$1,303	\$3,021	\$1,006

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HAWAIIAN ELECTRIC COMPANY, INC. 2007 RATE CASE

Added Positions - Calc Labor and Non-Labor Cost

						HELCO	MECO	NET
	Ct	Labor Class	Std Rt (1)	FTE	Dir Cost	Billable	<u>Billable</u>	<u>HECO</u>
Generation Bidding-								
Labor-								
Director	1	FS-I	46.79	2088	\$97,698	\$9,770	\$39,079	\$48,849
Staff Engineers	2	Y_GENPLN	39.87	2088	\$166,497	\$16,650	\$66,599	\$83,248
Annualized	3				\$264,195	\$26,420	\$105,678	\$132,097
1/2 Year					\$132,098	\$13,210	\$52,839	\$66,049
	0 1200							
Non-Labor- (Normali					\$840,500	\$8,333	\$413,834	\$418,333
LESS: Non-Labo	or 20	07 Budget (2)			(\$175,000)	\$0	\$0	(\$175,000)
					\$665,500	\$8,333	\$413,834	\$243,333
Total Generation	Bido	ding-			\$797,598	\$21,543	\$466,673	\$309,382
Fuel Infrastructure-							-	E
Director	7	FS-I	46.79	2088	\$97,698	\$9,770	\$9,770	\$78,158
1/2 Year				25 000 W W g	\$48,849	\$4,885	\$4,885	\$39,079
				3	3		i i	8
PSOM Administrator	1	TC-I	36.00	2088	\$75,168	\$0	\$0	\$75,168
1/2 Year					\$37,584	\$0	\$0	\$37,584
	5			3	\$884,031	\$26,428	\$471,558	\$386,045

Notes:

- (1) Standard labor rates are per the standard rates applied in Rate Case Test Year 2007.

 Used Generation Planning labor class for Staff; currently there are none for Generation Bidding.
- (2) Refer to CA-IR-2, HECO T-6, Attachment 12B, page 2.

HAWAIIAN ELECTRIC COMPANY INC. 2007 RATE CASE Generation Bidding Division

Normalized FY07-FY09 over THREE years.

Non-Labor Cost - TY 2007 RATE CASE (Normalized Ful	ll Year)		Jan 18	Tittee your	
Non-Eabor Cost - 11 2007 TV TE O/TOE (Normalized 1 di	i i cai j			TV 2007 D	ATE CASE
	FY07	EVOO	EV00	11 2007 K	ATE CASE
	Update	FY08 Forecast	FY09 Forecast	Total	Normalized
CONSOLIDATED:	Opulic	rorcoast	lolecast	Total	Normanzed
Outside Consultant - code of conduct (start up 1/3 share)	\$45,000	\$0	\$0	\$45,000	\$15,000
Outside Legal (start up 1/3 share)	\$30,000	\$0	\$0	\$30,000	\$10,000
Outside Consultant - RFP for HECO	\$150,000	\$150,000	\$150,000	\$450,000	\$150,000
Outside Consultant - RFP for HELCO	\$130,000	\$130,000	\$150,000	\$450,000	\$130,000
Outside Consultant - RFP for MECO	\$150,000	\$150,000		\$450,000	\$150,000
	050 Page 2000 CONTROL	\$150,000	\$150,000 \$150,000	PORT THROW'S PROPERTY.	and the second second
Outside Legal - RFP for HECO	\$60,000	462700	88383	\$360,000	\$120,000
Outside Legal - RFP for HELCO	\$0	\$150,000	\$0	\$0	\$0
Outside Legal - RFP for MECO	\$50,000	\$150,000	\$150,000	\$350,000	\$116,667
Independent Observer - RFP for HECO	\$60,000	\$180,000	\$180,000	\$420,000	\$140,000
Independent Observer - RFP for HELCO	\$0	\$0	\$0	\$0	\$0
Independent Observer - RFP for MECO	\$50,000	\$180,000	\$180,000	\$410,000	\$136,667
Interisland Travel - HELCO & MECO	\$900	\$1,800	\$1,800	\$4,500	\$1,500
Meals/Entertainment - HELCO & MECO	\$400	\$800	\$800	\$2,000	\$667
	\$596,300	\$962,600	\$962,600	\$2,521,500	\$840,501
HECO:					
Outside Consultant - code of conduct (start up 1/3 share)-					
Framework Requirements	\$15,000			\$15,000	\$5,000
Outside Level (start on 4/2 above). France and Beautiness and	040.000			#40.000	40.000
Outside Legal (start up 1/3 share)- Framework Requirements	\$10,000			\$10,000	\$3,333
Outside Consultant - RFP for HECO	\$150,000	\$150,000	\$150,000	\$450,000	\$150,000
Outside Legal - RFP for HECO	\$60,000	\$150,000	\$150,000	\$360,000	\$120,000
Independent Observer - RFP for HECO	\$60,000	\$180,000	\$180,000	\$420,000	\$140,000
	\$295,000	\$480,000	\$480,000	\$1,255,000	\$418,333
HELCO:					
Outside Consultant - code of conduct (start up 1/3 share)	\$15,000			\$15,000	\$5,000
Outside Legal (start up 1/3 share)	\$10,000			\$10,000	\$3,333
Outside Consultant - RFP for HELCO	\$0			\$0	\$0
Outside Legal - RFP for HELCO	\$0			\$0	\$0
Independent Observer - RFP for HELCO	\$0			\$0	\$0
Interisland Travel	\$0			\$0	\$0
Meals/Entertainment	\$0			\$0	\$0
	\$25,000	\$0	\$0	\$25,000	\$8,333
	Re-				
MECO:				İ	
Outside Consultant - code of conduct (start up 1/3 share)	\$15,000			\$15,000	\$5,000
Outside Legal (start up 1/3 share)	\$10,000			\$10,000	\$3,333
Outside Consultant - RFP for MECO	\$150,000	\$150,000	\$150,000	\$450,000	\$150,000
Outside Legal - RFP for MECO	\$50,000	\$150,000	\$150,000	\$350,000	\$116,667
Independent Observer - RFP for MECO	\$50,000	\$180,000	\$180,000	\$410,000	\$136,667
Interisland Travel - \$175 airfare + \$50 car rental per trip	\$900	\$1,800	\$1,800	\$4,500	\$1,500
Meals/Entertainment - \$100 lunch & dinner per person	\$400	\$800	\$800	\$2,000	\$667
The same of the sa	\$276,300	\$482,600	\$482,600	\$1,241,500	\$413,834
		¥ 102,000	¥-102,000		
				\$2,521,500	\$840,500

JUNE 2007 UPDATE

Ref: R. Young, HECO T-7, Transmission and Distribution O&M Expenses:

HECO Response:

For HECO T-7 an adjustment to increase the 2007 Test Year Transmission and Distribution ("T&D") expense by \$112,887 is being made. This adjustment is the net of:

•	Engineering Retention Program labor expenses	\$49,800
•	Removal of the VP – Special Projects labor expenses	(\$107,162)
•	Removal of Ho'okina award non-labor expenses	(\$60,000)
•	Increase to OMS Training Material Development	\$40,773
•	Reduction in the OMS amortization non-labor expense	(\$99,352)
•	Removal of duplicate OMS Software Maintenance expenses	(\$77,139)
•	Increase to OMS Software Maintenance fees	\$55,933
•	Increase to OMS Data Conversion Costs	\$262,934
•	Addition of Ocean Point AMI lease expense	\$47,100
	Net Adjustment	\$112,887

TRANSMISSION AND DISTRIBUTION OPERATION AND MAINTENANCE EXPENSE UPDATE

Engineering Retention Program Labor Expense

The Engineering Retention program was approved after the 2007 budget was completed and is partially funded by dollars that were originally budgeted for but will not be used for the Ho'okina program. This program adjustment resulted in permanent changes to the engineers'

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-7 PAGE 2 OF 6

salaries (see Responses to CA-IR-69 and CA-IR-297). The resulting additions to T&D operation and maintenance ("O&M") expenses are:

Transmission Operation \$ 8,400

Transmission Maintenance \$ 1,200

Distribution Operation \$35,200

Distribution Maintenance \$5,000

Total \$49,800

The derivation for these adjustments is explained in the HECO T-10 June 2007 Update, pages 1-2 and Attachment 2, page 1.

Removal of the Vice President – Special Project Labor Expenses

Labor expenses were decreased by \$107,162 to reflect the retirement of the Vice President-Special Projects. The derivation for this adjustment is provided in the HECO T-10 June 2007 Update, Attachment 1, page 5, that is being submitted under Amended Protective Order No. 23378, dated June 4, 2007.

Accounts 560 and 561 (\$107,162)

Removal of Ho'okina Award Non-Labor Expenses

The Ho'okina volunteer award recognition program has been suspended as a result of implementing a targeted compensation program as explained above and in HECO's response to CA-IR-69. The resulting reductions to the 2007 test year T&D operation non-labor expenses are:

Account 566 (\$16,000)

Account 588 (\$44,000)

Total (\$60,000)

The amounts included in Accounts 566 and 588 are shown on HECO-WP-101(G), pages 909 and 924. See also HECO-1220.

Increase to OMS Training Material Development

The 2007 test year estimate included forecasted consulting services for training in the amount of \$31,992. (See HECO-WP-101(G), page 922.) HECO filed a letter to the Commission on June 21, 2007, in Docket No. 04-0131, providing information on the current status of the Outage Management System (OMS) Project, and updating the current project cost estimate. Based on the current project cost estimate, consulting services for training will be \$72,765, resulting in a net increase of \$40,773 in distribution operation non-labor expenses for the 2007 test year. This increase is primarily due to an increase in the amount of training to provide a seamless transition from HECO's current outage management process based on paper maps and trouble tickets to a more technologically advanced and sophisticated new OMS. In addition, as explained below, the number of HECO Responsibility Areas, and therefore, the number of employees, to receive OMS training has increased.

Account 588 \$40.773

OMS HECO Training – Labor Expense

Besides the increase in Consultant Service costs for training, it was determined that training labor expenses for responsibility areas PBZ, PCH, and PRD were not included in the 2007 budget. The omission of these training labor expenses was discovered while preparing responses to CA-IR-108 and CA-IR-110 and it was determined that the project budget discussed in HECO T-7 at pages 27-28 and the expenses shown in HECO-737 did not include these training expenses for these three Responsibility Areas. The training estimates included in the test year and the current estimates for training not included in the test year are shown below.

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<u>Training Expenses – In The 2007 Test Year Estimate (Account 588 – Distribution Operation)</u>

As shown on HECO-WP-101(F), pages 809 and 810:

PDF \$47,448

PRE \$10,186

Total \$57,634

<u>Training Expenses - OMS Project Current Estimates (Account 588 – Distribution Operation)</u>

PBZ \$19,926

PCH \$ 9,680

PDF \$48,944

PRD \$47,581

PRE \$ 4,273

Total \$130,404

Despite these higher current expense estimates, HECO is <u>not</u> proposing any adjustments for the labor training expenses not included in the test year estimate.

Reduction in the OMS Amortization Non-Labor Expenses

HECO filed a letter with the Commission on June 21, 2007, providing information on the current status of the OMS Project, Docket No. 04-0131 and updating the current project cost estimate. In addition, HECO's response to CA-IR-108 further explained the impact of these changes on the 2007 test year estimates. The 2007 test year estimates included \$257,814 for the amortization of the OMS software development costs (see HECO-WP-101(G), page 918). The updated estimate is \$158,462. The estimate has been reduced due to delays in the implementation of the OMS project as discussed in the response to CA-IR-108 and HECO's June 21, 2007 letter to the Commission. The reduction in the amortization expense (budgeted as

Account 588

distribution operation non-labor expense) is:

(\$99,352)

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The resulting unamortized balance at year end 2007 will be \$4,642,308. (See also HECO T-10 June 2007 Update, page 5 and Attachment 5.)

Removal of duplicate OMS Software Maintenance Non-Labor Expense

During the preparation of HECO's response to CA-IR-108, it was determined that the OMS software maintenance expense (EE:501, Outside Services, General) was inadvertently budgeted in both responsibility area PRD (Operating Dispatch) in the amount of \$77,139 and in responsibility area PRE (Operating Engineering) in the amount of \$72,620. (See HECO-WP-101(G), pages 925 and 917, respectively.) The following adjustment reduces the distribution operation non-labor expense for the duplicate software maintenance expense from the Dispatch area (Responsibility Area PRD).

Account 581 (\$77,139)

Increase to OMS Software Maintenance Fees

The recently updated OMS project cost estimate included an update for software maintenance expenses. The current estimate is \$307,232, of which \$137,443 is estimated to be incurred in 2007. Although the software maintenance fees were not initially included in the project estimates when the capital improvement application for this project was filed, an estimate was included in the 2007 test year estimate for the System Operation and the Information Technology and Services departments. The amount budgeted was \$72,620 for SPL software maintenance in System Operation (RA:PRE) and \$8,890 for Oracle software maintenance in Information Technology and Services (RA: PEI). (See HECO-WP-101(G), pages 917 and 924.) The net increase to distribution operation non-labor expense over what was included in the test year estimate is:

Account 588 \$55,933

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Increase to OMS Data Conversion Costs

The current project cost estimate indicates higher than forecasted data conversion costs. The recent change in the estimate for this task is attributed to the change in the Geospatial Information System, which caused changes to the OMS extractor and required additional cleanup tasks. The revised estimate of data conversion expense to be incurred in 2007 is \$292,934, as reflected in HECO's June 21, 2007 letter to the Commission. The test year estimate currently includes \$30,000 of data clean-up expense. (See HECO-WP-101(G), page 922.) The net increase to distribution operation non-labor expenses is:

Account 588

\$262,934

Ocean Pointe AMI Lease Non-Labor Expense

As explained in HECO's response to CA-IR-182, as revised on June 12, 2007, because of the success of the ongoing R&D pilot project, HECO executed an expanded pilot project agreement with Sensus, dated January 9, 2007, to deploy AMI over an expanded coverage area, to include the Ocean Pointe subdivision with the deployment of a third communications tower. The adjustment is made to provide for the cost of leasing the Manu Kapu tower antenna site to provide the coverage area in which to communicate with the AMI meters. The lease expense amount incurred in 2007 is \$47,100. The cost of leasing the Manu Kapu tower antenna was not included in HECO's 2007 budget and, therefore, the following adjustment to increase distribution operation non-labor expense is being made:

Account 588

\$47,100

Summary

As indicated the net effect of these adjustments is an <u>increase</u> in the 2007 test year estimate for T&D O&M expenses of \$112,887.

JUNE 2007 UPDATE HECO T-7 DOCKET NO. 2006-0386 ATTACHMENT 1 PAGE 1 OF 1

(E)

(F=D+E)

Hawaiian Electric Company, Inc. JUNE 2007 UPDATE

TRANSMISSION AND DISTRIBUTION OPERATIONS & MAINTENANCE EXPENSE (\$000s)

(D)

(C)

(A)

(B)

								DIRECT				Jun-07
		2007						TESTIMONY		Jun-07		UPDATED
		ERATING		BUDGET				2007		BUDGET		2007
		UDGET		ADJUST	N	ORM		TEST YEAR		ADJUST		TEST YEAR
Transmission Operations		CDGLI		ribses1	- 1	Oldil		ILSI ILIK		HDJCSI		LEST TEAT
Labor	\$	2,535			\$	-	\$	2,535	\$	(98)	\$	2,437
Non-Labor	\$	2,880	\$	(37)	\$	(3 4)	\$	2,843	\$	1-60		2,827
SUB-TOTAL	\$	5,415	\$	(37)	\$	(4)	\$	5,378	\$	(114)	5550	5,264
Transmission Maintenance												
Labor	\$	1,934			\$	icalii	\$	1,934	\$	1	\$	1,935
Non-Labor	\$	3,158	\$	21	Ψ	_	\$	3,179	\$, 1 ,	\$	3,179
SUB-TOTAL	\$	5,092	\$	21	\$		\$	5,113	\$	1	\$	5,114
SUB-TOTAL	Ф	3,092	Ф	21	Ф		Þ	3,113	Ф	1	Ф	3,114
TOTAL TRANSMISSION	\$	10,507	\$	(16)	\$	35	\$	10,491	\$	(113)	\$	10,378
Distribution Operations												
Labor	\$	5,325	\$	(68)	\$	-	\$	5,257	\$	35	\$	5,292
Non-Labor	\$	5,394	\$	10	\$	-	\$	5,404	\$	186	\$	5,590
SUB-TOTAL	-\$	10,719	\$		\$	84	\$	10,661	\$	221	\$	10,882
Seb Tellin	Ψ	10,715	Ψ	(30)	Ψ		Ψ	10,001	Ψ	221	Ψ	10,002
Distribution Maintenance												
Labor	\$	5,427			\$	52	\$	5,427	\$	5	\$	5,432
Non-Labor	\$	8,622	\$	12	\$		\$	8,634	\$		\$	8,634
SUB-TOTAL	\$	14,049	\$	12	\$		\$	14,061	\$	5	\$	14,066
								52			\$	
TOTAL DISTRIBUTION	\$	24,768	\$	(46)	\$	1.5	\$	24,722	\$	226	\$	24,948
	<u> </u>										\$:=:
TOTAL LABOR	\$	15,221	\$	(68)			\$	15,153	\$	(57)	\$	15,096
TOTAL NON-LABOR	\$	20,054	\$	6			\$	20,060	\$	170	\$	20,230
	640-01	STRORUSSE E						19000000000000000000000000000000000000			\$	
GRAND TOTAL	\$	35,275	\$	(62)	\$	8 ¥8	\$	35,213	\$	113	\$	35,326

SOURCE:

Columns A to D: See HECO-709.

Column E: See June 2007 Update, Attachment 2.

HAWAIIAN ELECTRIC COMPANY, INC. SUMMARY OF ADJUSTMENTS

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-7 ATTACHMENT 2 PAGE 1 OF 1

<u>Transmissio</u>	n Operation		Direct		ine 2007 <u>Update</u>	<u>A</u>	djustment
Labor	Engineering Retention Program	\$	_	\$	8,400		8,400
Lauoi	Retirement of VP-Special Projects	\$	107,162	\$	-		(107,162)
	Retirement of VI-Special Flojects	\$	107,162	\$	8,400	\$	(98,762)
	•		con- 604.com Name Advantable	00.80 %	Decorpt Constitution (Page 1)	7.8891	
Non-Labor	Removal of Ho'okina award	\$	16,000	\$.		(16,000)
		\$	16,000	\$		\$	(16,000)
	n Maintenance	NING OR		Wiki		2000	
Labor	Engineering Retention Program	\$		\$	1,200	\$	1,200
		\$	=	\$	1,200	\$	1,200
<u>Distribution</u> Labor	Operation Engineering Retention Program	\$ \$	-	\$	35,200 35,200	\$	35,200 35,200
Non-Labor	21						
Tion Educor	Removal of Ho'okina award	\$	44,000	\$		\$	(44,000)
	OMS Consultant Services - Trainin	\$	31,992	\$	72,765	\$	40,773
	OMS amortization	\$	257,814	\$	158,462	\$	(99,352)
	OMS Software maint dup entry	\$	77,139	\$	±2	\$	(77,139)
	Oceanpoint AMI lease	\$	=	\$	47,100	\$	47,100
	OMS additional SW maint fees	\$	81,510	\$	137,443	\$	55,933
	OMS data cleanup		30,000		292,934	\$	262,934
	²⁰	\$	522,455	\$	708,704	\$	186,249

Distribution	The same of the sa	¢.		ф	£ 000	¢.	£ 000
Labor	Engineering Retention Program	\$	~	\$	5,000	\$	5,000
		Þ		Þ	5,000	\$	5,000
					:	\$	112,887

JUNE 2007 UPDATE

Ref: D. Yamamoto, HECO T-8, Customer Deposits, Interest on Customer Deposits, Uncollectible Accounts Expense, Late Payment Charges, and Account 903 Expenses

Customer Deposits and Interest on Customer Deposits

The Customer Deposits and Interest on Customer Deposits have been updated to reflect the recorded actuals through December 2006. These updates resulted in increases for both the Customer Deposits and Interest on Customer Deposits for the 2007 Test Year. The Customer Deposits estimated balance for the 2007 Test Year increased by \$221,000, from \$6,377,000 to \$6,598,000. The Interest on Customer Deposits estimate for the 2007 Test Year increased by \$2,000 from \$375,000 to \$377,000. HECO-802, HECO-803, HECO-WP-802, and HECO-WP-803 have been updated to reflect the changes in the test year estimates and are presented on pages 3 through 6.

Uncollectible Accounts Expense

The uncollectible factor of 0.1009% has not been changed. The Uncollectible Accounts Expense amount has been revised due to the updated revenue projections for the 2007 Test Year. The development of these updated revenue estimates is discussed in the Test Year Update provided in HECO T-3. The estimates of Uncollectible Accounts Expense increased by:

- 1. \$3,000, from \$1,358,000 to \$1,361,000, at present rates; and
- 2. \$2,000, from \$1,411,000 to \$1,413,000, at current effective rates.

Because a new revenue requirement has not been developed based on the Company's submitted test year updates, proposed revenues are not available. Thus, the Uncollectible Accounts

Expense for revenues for updated proposed rates which also is based on the uncollectible factor

of 0.1009% has not been estimated and is not available. These changes in the test year estimates are reflected on the updated HECO-805 exhibit, found on page 7.

Late Payment Charges

The Late Payment Charge percentage factor of 0.095% of electric sales revenues has not been changed. Late Payment Charges were revised for the updated revenue projections for the 2007 Test Year at present rates and current effective rates. This resulted in an increase of \$2,900 in late payment charges associated with both sales revenues at present rates and sales revenues at current effective rates. Because a new revenue requirement has not been developed based on the Company's submitted test year updates, proposed revenues are not available. Thus, the late payment charge for revenues for updated proposed rates has not been estimated and is not available (see updated exhibit HECO-807, shown on page 8).

Account 903 Expenses

Estimated expenses for Customer Records and Collections (Account 903.00) were reduced by \$91,000 due to the increase of \$8,700 for allocated costs associated with the Engineering Retention program offset by the elimination of \$100,000 for consulting costs that were originally included in the test year for the implementation of remote printing and billing (see revised HECO-801 on pages 9 and 10). The Engineering Retention program is discussed in the Company's response to CA-IR-69 and in Ms. Patsy Nanbu's (T-10) Test Year Update and the reduction of the remote printing and billing consultant costs is discussed in the Company's response to CA-IR-272.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 3 OF 10

HECO-802 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC.

CUSTOMER DEPOSITS

(ACCOUNT 235.01)

(\$ THOUSANDS)

<u>Line</u>		
1	Recorded Balance 12/31/01	4,183
2	Recorded Net Increase in 2002	300
3	Recorded Balance 12/31/02	4,483
4	Recorded Net Increase in 2003	589
5	Recorded Balance 12/31/03	5,072
6	Recorded Net Decrease in 2004	-6
7	Recorded Balance 12/31/04	5,066
8	Recorded Net Increase in 2005	321
9	Recorded Balance 12/31/05	5,387
10	Recorded Net Increase in 2006	982
11	Recorded Bal. 12/31/06	6,369
12	Estimate Increase 12/31/07	458
13	Estimated Balance 12/31/07	6,827
	Recorded Balance 12/31/06 Estimated Balance 12/31/07	6,369 6,827 13,196 6,598

Source: HECO-WP-802 rev 5-29-07 for actual recorded 2006

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 4 OF 10

HECO-803 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC.

INTEREST ON CUSTOMER DEPOSITS

(ACCOUNT 431.05)

(\$ THOUSANDS)

<u>Line</u>		
1	Recorded Balance 12/31/01	236
2	Recorded Net Increase in 2002	26
3	Recorded Balance 12/31/02	262
4	Recorded Net Increase in 2003	18
5	Recorded Balance 12/31/03	280
6	Recorded Net Increase in 2004	39
7	Recorded Balance 12/31/04	307
8	Recorded Net Increase in 2005	2
7	Recorded Balance 12/31/05	309
8	Recorded Net Increase in 2006	42
9	Recorded Balance 12/31/06	351
10	Estimated Increase in 2007	26
11	Estimated Balance 12/31/07	377

Source: HECO-WP-803 rev. 5-29-07 based on updated actual Sep - Dec 2006 for deposits.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 5 OF 10

HECO-WP-802 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC.

CUSTOMER DEPOSITS (Account 235.01)

	[REC	ORDED		
	2001	2002	2003	2004	2005	2006
JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER	3,719,126 3,774,112 3,843,587 3,871,783 3,906,381 3,961,245 4,004,665 4,102,650 4,136,432 4,139,808	4,232,863 4,316,470 4,339,474 4,354,984 4,321,465 4,362,189 4,395,891 4,402,663 4,420,526 4,471,469	4,542,477 4,530,123 4,564,027 4,590,389 4,616,784 4,594,128 4,575,584 4,693,623 4,812,854 5,020,781	5,096,061 5,124,279 5,164,089 5,161,650 5,139,280 5,144,856 5,090,420 5,125,293 5,124,987 5,035,822	5,075,469 5,099,965 5,094,526 5,116,575 5,148,162 5,152,599 5,139,242 5,143,856 5,179,767	5,461,661 5,596,777 5,741,625 5,798,289 5,828,493 5,909,336 5,950,459 6,009,412 6,077,225 6,217,532
NOVEMBER DECEMBER	4,148,890 4,183,110	4,471,469 4,528,238 4,482,910	5,020,781 5,065,511 5,071,972	5,035,822 5,030,873 5,065,653	5,273,681 5,359,351 5,387,270	6,294,852 6,368,722
Average annual s based on year-er	1.50	01 - 2005)		7.197%		
				ESTIMATED YEAR-END BALANCE		
2007		6,368,722 X	1.07197 =	= 6,827,079	(1)	

(1) 2005 YEAR END BALANCE - 2001 YEAR END BALANCE / 4 Years = Annual % increase

5,387,270 - 4,183,110 = 28.786% / 4 Years = 7.197% Avg. Annual % Increase

Rev. Upd.: 5/29/07 for Sept - Dec. 2006 actual recorded

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 6 OF 10

HECO-WP-803 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC.

INTEREST ON CUSTOMER DEPOSITS (Account 431.05)

			REC	CORDED-		
	2001	2002	2003	2004	2005	2006
JANUARY	18,336	20,916	22,415	25,360	25,328	26,936
FEBRUARY	18,596	21,164	22,712	25,480	25,377	27,308
MARCH	18,871	21,582	22,651	25,621	25,500	27,984
APRIL	19,218	21,697	22,820	25,820	25,473	28,708
MAY	19,359	21,775	22,952	25,808	25,583	28,991
JUNE	19,532	21,607	23,084	25,696	25,741	29,142
JULY	19,806	21,811	22,971	25,724	25,763	29,547
AUGUST	20,023	21,979	22,878	25,452	25,696	29,752
SEPTEMBER	20,513	22,013	23,468	25,626	25,719	30,047
OCTOBER	20,682	22,103	24,064	25,625	25,899	30,386
NOVEMBER	20,699	22,357	25,104	25,179	26,368	31,088
DECEMBER	20,744	22,641	25,328	25,154	26,797	31,474
TOTALS	236,379	261,647	280,446	306,548	309,244	351,365

ESTIMATED ACCRUED INTEREST

351,365 X 1.07197 = 376,652

2007

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 7 OF 10

HECO-805 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC.

UNCOLLECTIBLE ACCOUNTS EXPENSE

2007

ACCOUNT 904

(\$ THOUSANDS)

Line		Estimated Test Year Revenue
		<u>2007</u>
1	Electric Sales Revenue used for 2007 BUDGET	\$1,441,000
2	Times Uncollectible Factor used for 2007 Budget	0.0946%
3	Equals Uncollectible Accounts Expense	\$1,363
4	Electric Sales Revenue at Present Rates* (without interim surcharge)	\$1,348,635
5	Times Uncollectible Factor	0.1009%
6	Equals Uncollectible Accounts Expense	\$1,361
7	Electric Sales Revenue at Current Effective Rates	\$1,400,520
8	Times Uncollectible Factor	0.1009%
9	Equals Uncollectible Accounts Expense	\$1,413
10	Electric Sales Revenue at Proposed Rates	N/A
11	Times Uncollectible Factor	0.1009%
12	Equals Uncollectible Accounts Expense	N/A

 $\mbox{N/A}$ (Not Available) - Updated estimate dependent on revised proposed revenues resulting from the Company's total Test Year updates.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 8 OF 10

HECO-807 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. 2007 TEST YEAR

NON-SALES ELECTRIC UTILITY CHARGES

	At Present Rates	with interim surcharge At Present Rates	At Proposed Rates
Non-Sales Electric Utility Charges			
Service Establishment Charges	\$791.0	\$791.0	\$1,149.0
Field Collection Charges	\$88.9	\$88.9	\$332.2
Returned Check(Payment) Charges	\$38.5	\$38.5	\$112.9
Late Payment Charges - OCARS	\$5.0	\$5.0	\$5.0
Late Payment Charges	\$1,281.2	\$1,330.5	N/A
Total Other Operating Revenues	\$2,204.6	\$2,253.9	N/A

N/A (Not Available) - Updated estimate dependent on revised proposed revenues resulting from the Company's total Test Year updates.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 9 OF 10

HECO-801 DOCKET NO. 2006-0386 PAGE 1 OF 2

HAWAIIAN ELECTRIC COMPANY, INC. CUSTOMER ACCOUNTS EXPENSE 2001 - 2007

(\$ THOUSANDS)

			RECORDE	D		annas	DIRECT TEST.	JUNE 2007 UPDATE	TY UPDATE
CUSTOMER ACCOUNTS	2001	2002	2003	<u>2004</u>	2005	2006	2007	2007	2007
901.00 Supervision	329	633	620	856	973	1,156	1,358		1,358
902.00 Meter Reading Expenses	2,196	2,114	2,085	2,413	2,192	2,472	2,693		2,693
903.00 Cust Records & Collection	6,811	6,405	6,335	7,049	7,644	7,106	7,969	-91	7,878
905.00 Misc. Customer Accounts	3	2	0	1	1	<u>0</u>	0		0
Subtotal less Uncollectible Acct.	9,339	9,154	9,040	10,319	10,810	10,734	12,020	-91	11,929
904.00 Uncollectible Accounts	774	737	1,015	413	339	1,582	1,358	3	1,361
Total Customer Account Expense Present Rates	<u>10,113</u>	9,891	10,055	10,732	11,149	12,316	13,378	<u>-88</u>	13,290
904.00 Uncollectible Accounts	774	737	1,015	413	339	1,582	1,411	2	1,413
Total Customer Account Expense Current Effective Rates	10,113	<u>9,891</u>	10,055	<u>10,732</u>	11,149	<u>12,316</u>	13,431	<u>-89</u>	13,342
904.00 Uncollectible Accounts	774	737	1,015	413	339	1,582	1,511	N/A	N/A
Total Customer Account Expense @ Proposed Rates	10,113	<u>9,891</u>	10,055	10,732	11,149	<u>12,316</u>	13,531	N/A	N/A

N/A (Not Available) - Updated estimate dependent on revised proposed revenues resulting from the Company's total Test Year updates.

Source: HECO-WP-101 (B), Reports S1 and S2 for Recorded 2001-2005, recorded 2006 Jean Suh extract & 2007 previous TY now Direct Testimony 2007.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-8 PAGE 10 OF 10

HECO-801 DOCKET NO. 2006-0386 PAGE 2 OF 2

HAWAIIAN ELECTRIC COMPANY, INC. CUSTOMER ACCOUNTS EXPENSE 2001 - 2007

(\$ THOUSANDS)

	(\$ 111003A103)						Direct	June 2007	TY	
				RECORE)FD			Testimony	Update	Update
LINE	CUSTOMER ACCOUNTS Account 901 - Supervision	<u>2001</u>	<u>2002</u>	2003	2004	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2007</u>	<u>2007</u>
1	Labor	71	56	60	43	80	146	154		154
2	Non-labor	<u>258</u>	<u>577</u>	<u>560</u>	813	<u>893</u>	1,010	1,204	0	1,204
3	TOTAL	<u>329</u>	<u>633</u>	<u>620</u>	<u>856</u>	<u>973</u>	<u>1,156</u>	1,358	<u>0</u>	<u>1,358</u>
	Account 902 - Meter Reading									
4	Labor	1,778	1,717	1,847	1,963	1,852	2,090	2,237		2,237
5	Non-labor	418	397	238	450	340	382	456		456
6	TOTAL	<u>2,196</u>	<u>2,114</u>	<u>2,085</u>	<u>2,413</u>	<u>2,192</u>	<u>2,472</u>	<u>2,693</u>	<u>0</u>	<u>2,693</u>
	Account 903 - Cust Rec. & Collection									
7	Labor	3,657	3,6 4 7	3,72 4	4,012	4,400	4,105	4,274	9	4,283
8	Non-labor	3,154	2,759	2,611	3,037	3,244	3,001	3,695	-100	3,595
9	TOTAL	6,811	<u>6,406</u>	6,335	7,049	7,644	7,106	7,969	<u>-91</u>	7,878
	Account 905 - Misc Cust Accts.									
10	Labor	3	2	0	1	1	0	0	0	0
11	Non-labor	==:	302.11	- 50	=	=	- 53	NES	=	
12	TOTAL	<u>3</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Sub total 901,902,903,905									
13	Labor	5,509	5,422	5,631	6,019	6,333	6,341	6,665	9	6,674
14	Non-Labor	3,830	3,733	3,409	4,300	4,477	4,393	<u>5,355</u>	-100	5,255
15	TOTAL	9,339	9,155	9,040	10,319	10,810	10,734	12,020	<u>-91</u>	11,929
13	TOTAL	2,555	3,133	2,010	10,015	10,010	10/131	12,020		11,525
	Account 904 - Uncollectible Accts.									
16	Non-labor	774	736	1,015	413	339	1,582	1,358	3	1,361
17	TOTAL	<u>774</u>	<u>736</u>	1,015	<u>413</u>	339	1,582	<u>1,358</u>	<u>3</u>	1,361
	Total Cust. Accts Present Rates									
18	Labor	5,509	5,422	5,631	6,019	6,333	6,341	6,665	9	6,674
19	Non-labor	4,604	4,469	4,424	4,713	4,816	5,97 <u>5</u>	6,713	<u>-97</u>	6,616
20	TOTAL	10,113	9,891	10,055	10,732	11,149	12,316	13,378	<u>-88</u>	13,290
	Account 904 - Uncollectible Accts.									
21	Non-labor	774	736	1.01E	413	339	1 500	1 //11	2	1,413
21 22	TOTAL	774 <u>774</u>	736 736	1,015 <u>1,015</u>	413 413	339 339	1,582 <u>1,582</u>	1,411 <u>1,411</u>	2 <u>2</u>	1,413
	Total Cust. Accts Current Effective Ra	ates								
23	Labor	5,509	5,422	5,631	6,019	6,333	6,341	6,665	9	6,674
24	Non-labor	4,604	4,469	4,424	4,713	4,816	5,975	<u>6,766</u>	<u>-98</u>	<u>6,668</u>
25	TOTAL	10,113	9,891	10,055	10,732	11,149	12,316	<u>13,431</u>	<u>-89</u>	13,342
	Account 904 - Uncollectible Accts.									
26	Non-labor	77 4	736	1,015	413	339	1,582	1,511	N/A	N/A
27	TOTAL	<u>774</u>	736	1,015	413	<u>339</u>	1,582	1,511	N/A	N/A
	Total Cust. Accts Proposed Rates									
28	Labor	5,509	5,422	5,631	6,019	6,333	6,341	6,665	N/A	N/A
29	Non-labor	4,604	4,469	4,424	4,713	4,816	5,975	<u>6,866</u>	N/A	N/A
30	TOTAL	10,113	9,891	10,055	10,732	11,149	12,316	13,531	N/A	N/A
30	101/12		-,,,,						13/	14/1

N/A (Not Available) - Updated estimate dependent on revised proposed revenues resulting from the Company's total Test Year updates.

JUNE 2007 UPDATE

Ref: Faye Chiogioji, HECO T-14, Updated Test Year Average and Test Year End of Year Employee Counts

In its response to CA-IR-27 and CA-IR-302, submitted on April 19, 2007 and May 30, 2007 respectively, the Company updated its Test Year Average and Test Year End of Year ("EOY") employee counts.

The Energy Services Department has been increased by two employees as a result of HECO's proposal to include DSM-related labor costs for two incremental regular HECO employees in base rates. See HECO's response to CA-IR-263, 122 and 130. The proposed classification of labor costs associated with these two regular HECO employees as base labor is consistent with the treatment by the Energy Services Department of all other regular HECO employee labor costs as base labor. An Updated HECO-1403 and an Updated HECO-WP-1401 were submitted on April 19, 2007 in response to CA-IR-27, pages 7 and 8, to reflect this update.

Subsequently, the Power Supply Process Area also increased its employee requirements by five employees to reflect the new organization that is described in detail by Mr. Dan Giovanni (T-6) in the Company's June 2007 test year update. An Updated HECO-1403 and an Updated HECO-WP-1401 were submitted on May 30, 2007 in response to CA-IR-302, pages 7 and 8, to reflect this update.

With the retirement of the Vice President-Special Projects, the Company will eliminate the VP-Special Projects department. Of the two positions that were included in the test year, the VP-Special Projects position and associated labor costs have been eliminated (see Ms. Patsy Nanbu's (T-10) and Mr. Robert Young's (T-7) June 2007 test year updates). An Updated WP-1401 and Updated HECO-1403 are submitted on pages 3 and 4 to reflect this change.

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Although the secretary who occupied the remaining position in the department has transferred to the Power Supply Services department, her position and associated labor costs are still reflected in the VP-Special Projects department. No additional employee count or labor cost has been added by the Power Supply Services department to its test year estimates.

The Company's updated Test Year Average totals 1,552 as shown on page 3 and the Company's updated Test Year EOY total is 1,560 as shown on page 4.

Hawaiian Electric Company, Inc. Updated 2007 Test Year Average Calculation Updated HECO-WP-1401 (****Reflects June 2007 Update, dated 06/29/07)

(****Reflects June 2007 Update, dated 06/29/07)															
D4	I 07	1 07	F-1-07	M 07	A 07	M 07	I 07	11.07	A 07	C 07	0-4.07	N 07	D 07	T-4-1	Test Year
Dept Comp & Bon	Jan-07	Jan-07 15	Feb-07 15	Mar-07 15	Apr-07	May-07 15	Jun-07 15	Jui-07 15	Aug-07	Sep-07 15	15	Nov-07	Dec-07	Total 195	Average
Comp & Ben Ind Rel	15 9	9	9	9	9	9	9	9	9		9		9	117	15 9
SSF	47	47	47	47	47	47	47	47	47	47	47	47	47	611	47
VP-Corp Exc	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
WFSD	17	17	17	17	17	17	17	17	17	17	17	17	17	221	17
WIOD	90	90	90	90	90	90	90	90	90	90	90	90	90	1170	90
Corp Comm	10	10	10	10	10	10	10	10	10	10	10	10	10	130	10
VP-Corp Rel	2	2	2	2	2	2	2	2	2	2	2	100000	2	26	2
VI GGIP IXGI	12	12	12	12	12	12	12	12	12	12	12	12	12	156	12
CustTechAp	10	10	10	10	10	10	10	10	10		10		10	130	10
Engy Svcs*	26	26	26	26	26	26	26	26	26	26	26	26	26	338	26
Less: DSM	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-117	26 -9
**Add Back: DSM	2	2	2	2	2	2	2	2	2	2	2		2	26	2
Fcst&Res*	12	12	12	12	12	12	12	12	12	12	12	12	12	156	12
Less: DSM	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-26	-2
IRP	6	6	6	6	6	6	6	6	6	6	6	200.00	6	78	-2 6
Mktg Svcs	12	12	12	12	12	12	12	12	12	12	12	12	12	156	12
VP-Cust Sol	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
	57	59	59	59	59	59	59	59	59	59	59	59	59	765	59
C&M	220	220	220	220	220	220	220	220	220	220	220	220	220	2860	220
Engineering	85	85	85	85	85	85	85	85	85	85	85	85	85	1105	85
Supp Svcs	85	85	85	85	85	85	85	85	85	85	85	85	85	1105	85
Sys Op	117	117	117	117	117	117	117	117	117	117	117	117	117	1521	117
VP-En Del	2	2	2	2	2	2	2	2	2	2	2	2	2	26	2
	509	509	509	509	509	509	509	509	509	509	509	509	509	6617	509
CID	53	53	53	53	53	53	54	54	54	54	53	53	53	693	53
Engy Proj	9	9	9	9	9	9	9	9	9	20	9		9	117	9
SVP-EnSol	4	4	4	4	4	4	4	4	4	4	4		4	52	4
Tech	3	3	3	3	3	3	3	3	3		3		3	39	3
	69	69	69	69	69	69	70	70	70	70	69	69	69	901	69
Financial VP	3	3	3	3	3	3	3	3	3	3	3	3	3	39	3
Gen Acctg	26	26	26	26	26	26	26	26	26	26	26	26	26	338	26
InfoTech	94	94	94	94	94	94	94	94	94	94	94	94	94	1222	94
MAFS	22	22	22	22	22	22	22	22	22	22	22	22	22	286	22
RiskMgt	9	9	9	9	9	9	9	9	9	1700	9	1099	9	117	9
Lavel	154	154	154	154	154	154	154	154	154	154	154	154	154	2002 208	154 16
Legal VPGen	16 2	16 2	16 2	16 2	16 2	16 2	16 2	16 2	16 2	16 2	16 2	16 2	16 2	208	
VEGET	18	18	18	18	18	18	18	18	18	18	18	18	18	234	2 18
Ed & Cons Aff	8	- THE	8	8	8	8	8	8	8	8	8	100A-10	8	104	8
Reg Affairs	8		8	8	8		8	15					15	146	11
VP-Gov & Com	7	7	7	7	7	7	7	7	7	1	7		7	91	7
VI COV & COIII	23	23	23	23	23	23	23	30	30		30	70.0	30	341	26
Cust Svc	134	134	134	134	134	134	134	134	134	134	134		134	1742	134
Adjustment	-7	-7	-7	-3	-3	-3	-1	-1	-1	-1	-1	-1	-1	-37	-3
SVP-Oper	3	3	3	3	3	3	3	3	3		3		3	39	3
	130	130	130	134	134	134	136	136	136	136	136		136	1744	134
CorpAudComp	12	12	12	12	12	12	12	12	12	12	12		12	156	12
President	5	5	5	5	5	5	5	5	5	5	5	5	5	65	5
	17	17	17	17	17	17	17	17	17	17	17	17	17	221	17
Gov Rel	3	3	3	3	3		3	3	3	3	3	3	3	39	3
SVP-Pub Aff	2	2	2	2	2	2	2	2	2	3	2		2	27	3 2
	5	5	5	5	5	5	5	5	5	V	5	5	5	66	5
Environ	24		24	24	24	24	24	24	24	24	24		24	312	24
Production	383	383	383	383	383	383	383	383	383		383		383	4979	383
***Adjustment						1	2	5	5		5		5	33	3
PwrSup Eng	46	46	46	46	46	46	46	46	46	0.00113	46		46	598	46
VP-Pwr Sup	2	2	2	2	2	2	2	2	2	1/	2		2	26	2
	455	455	455	455	455	456	457	460	460	460	460	460	460	5948	458
VP-SpecProj	2	2	2	2	2	2	2	2	2	2	2		2	26	2
****Adjustment	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-13	-1
	1 1 1 1 1 1	1 4542	1 1 1 1 1 1	1 1	1 1 1 1 1 1	1	1	1 1 1 1 1 1	1 1	1 1	1 500	1 4500	1 1 1 1 1 1	13	1
	1540	1542	1542	1546	1546	1547	1551	1561	1561	1562	1560	1560	1560	20178	1552

^{*}Excludes 11 employees covered under the DSM adjustment surcharge and reflects Customer Service's revised 2007 staffing plan.

^{**}Updated to reflect Production's revised staffing plan as stated in June 2007 Updated, HECO T-7 and T-10.

Hawaiian Electric Company, Inc. Updated Summary Recorded and Average Number of Employees Updated HECO - 1403

(****Reflects June 2007 Update, dated 06/29/07)

2004 Recorded 2004 Recorded 2006 Recorded 2006 Recorded 2007 TEO 2006 Updated 2007 TEO			With the second	ine 2007 Upd				1971		100
2004 2004 Recorded 2005 Recorded 200			Α	В	С	D	E	F	G	Н
Component Audit & Compliance (Formerly Internal Audit)	Providently Office		Recorded		Recorded		Recorded	Projected	2007 EOY	Updated 2007 TEST YEAR AVERAGE
Presidents Office		t & Compliance (Formerly Internal Audit)	6	6	11	9	11	9	12	1:
Subtotal 10 9 16 13 13 11 17 17 17 17 17										12
Compensation & Berteffet	-									17
Compensation & Benefits	10.00	lence	10	9	10	13	13	- 11	- 17	
Industrial Relations			14	14	13	14	12	13	15	1:
Safety, Security & Facilities 50										9
Workforce Staffing & Development	garage section of the	ETT-COURT								4
Properties Pro			5.751705							1
Subtotal 94 83 83 91 86 82 90 90 91 91 92 93 94 92 95 94 94 93 94 92 95 94 94 94 95 94 94 95 94 94					VENEZA					
P-Finance	-	Acelletice 3 Office	0.000	094			2011	0.002	10040	9
General Accounting	MATCH TO THE PARTY OF THE PARTY		34	83	65	31	- 00	02	90	3
Information Technology & Services		oting	25	25	26	25	26	26	26	2
Management Accounting 8 Fin Sves 20 21 20 21 22 22 22 22							07217(181)			9
Risk Management 9 9 9 9 9 9 9 9 9										2:
Financial VP/Treasurer's Office 3 3 3 3 4 4 3 152 153 156 154 15 154 154 154 154 155 153 156 154 154 154 154 155							2262.33			
Subtotal 147 148 153 152 153 156 154 151										
P-General Counsel	23	easurer's Office					- 3			-
Legal 16	- DOMESTICAL	st .	147	148	153	152	153	156	154	15
VP-Gen Counsel's Office		FI .	3.0	4.4	40	**	45	40	40	1
Subtotal 18		alle Office								
Cyp. Energy Solutions'	i i	era Onice								
Customer installations		Hana's	18	16	18	18	17	18	18	18
Energy Projects			***			40				-
Technology										5
Sr. VP-Energy Solutions' Office		S		1000						
Subtotal 57 99 65 62 61 59 69 19		0-1-4		6570						
Pous		Solutions: Office	1000	9.00	- 75	1777	. 5454	-0000	1,770.0	
Customer Technology Applications			57	99	65	62	61	59	69	6
Energy Services***										
Forecasts & Research**	Customer Tech	nology Applications	11.00	3007			-	1.00		10
Integrated Resource Planning										19
Marketing Services				2000						1
VP-Customer Solutions' Office				3873						
Subtotal 49 46 54 53 51 52 59 15			1155000	3027	77.130.7	20000	2.002.01			1:
Customer Service 126	VP-Customer S	olutions' Office		050		3.22	250			
Customer Service 126			49	46	54	53	51	52	59	5
Sr. VP-Operations' Office	Sr. VP-Operations									
Subtotal 128 120 133 131 128 129 136 136 137 138 131 128 129 136 138 131 138 131 138 131 138 139 136 138 131 138 131 138 131 138			126	118	130	129	125	126	133	13
P-Energy Delivery	Sr. VP-Operation	ons' Office	2	2	3	2	3	3	3	
Construction & Maintenance	Subtotal		128	120	133	131	128	129	136	13
Engineering	P-Energy Delivery									
Support Services 81 76 80 80 77 81 85 18	Construction &	Maintenance	219	213	215	218	209	218	220	22
System Operation	Engineering		79	79	86	85	85	84	85	8
VP-Energy Delivery's Office 2 3 2<										8
Subtotal 481 467 495 492 481 490 509 50 50 50 50 50 50	System Operati	on	100	96	112	107	108	105	117	11
P-Power Supply Environmental 24 21 22 24 22 22 24 22 24 25 26 27 28 28 28 28 28 28 29 29	VP-Energy Deli	very's Office	2	3	2	2	2	2	2	
Environmental 24 21 22 24 22 22 24 24	Subtotal		481	467	495	492	481	490	509	50
Environmental 24 21 22 24 22 22 24 24	/P-Power Supply									
Power Supply Engineering (formerly Planning & Engineering)			24	21	22	24	22	22	24	2
Power Supply Operations & Maintenance*** 296 275 299 299 306 314 353 33 Power Supply Services*** 32 18 30 31 29 29 35 35 VP-Power Supply 's Office 2 2 2 2 2 2 2 2 Subtotal 395 362 394 398 396 407 460 49 P-Special Projects 3 3 3 3 3 3 3 3 Governmental Relations 3 3 3 3 3 3 3 Sr. VP-Public Affairs 3 3 3 3 3 3 3 Governmental Relations 5 5 5 5 5 5 Subtotal 5 5 5 5 5 5 Subtotal 5 5 5 5 5 Subtotal 5 5 5 5 Subtotal 5 5 Subtotal 5 5 5 Subtotal 5 7 Subtotal 5 Subto			41	46	41	42	37	40	46	4
VP-Power Supply 's Office 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 3 2 2 2 <td>Power Supply C</td> <td>Operations & Maintenance***</td> <td>296</td> <td>275</td> <td>299</td> <td>299</td> <td>306</td> <td>314</td> <td>353</td> <td>35</td>	Power Supply C	Operations & Maintenance***	296	275	299	299	306	314	353	35
VP-Power Supply 's Office 2 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 3 2 2 2 <td></td> <td></td> <td></td> <td></td> <td>780000000</td> <td>The state of the s</td> <td></td> <td></td> <td></td> <td></td>					780000000	The state of the s				
P-Special Projects 3 3 3 3 3 3 3 3 3	VP-Power Supp	bly 's Office		2	2	2	2			
P-Special Projects 3 3 3 3 3 3 3 3 3			395	362	394	398	396	407	460	45
Covernmental Relations 3 3 3 3 3 3 3 3 3	D15000000000000000000000000000000000000									
Governmental Relations 3 3 3 3 3 2 3 3 3 3				3.50						
Sr. VP-Public Affairs' Office 2 2 2 2 2 3 3 2 Subtotal 5 5 5 5 5 5 5 5 5 (P-Corporate Relations 9 9 10 10 8 8 10 7 VP-Corporate Relations' Office 2 2 2 2 2 3 3 2 Subtotal 11 11 11 12 11 11 12 11 11 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 12 12 12 12 12	act		3	3	3	3	3	2	3	
Subtotal 5 5 5 5 5 5 5 5 5				5001						
P-Corporate Relations			1070	2340			32.	- 21		
Corporate Communications 9 9 10 10 8 8 10 10 10 10		ions	J	J	J	J	J	,	3	
VP-Corporate Relations' Office 2 2 2 2 2 3 3 2 Subtotal 11 11 12 12 11 11 12 11 11 12 11 11 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 11 11 12 12 12 11 11 12 <t< td=""><td></td><td></td><td>q</td><td>9</td><td>10</td><td>10</td><td>Я</td><td>8</td><td>10</td><td>1</td></t<>			q	9	10	10	Я	8	10	1
Subtotal 11 11 12 12 11 11 12 12 17 11 12 12										
P-Government & Community Affairs										
Education & Consumer Affairs 6 6 8 7 8 8 Regulatory Affairs 5 5 7 7 7 7 15 7 VP-Gov't & Comm Affairs' Office 7 5 7 7 7 7 7 Subtotal 18 16 22 21 22 22 30 2		Community Affairs	1.1	. 34.	12	12	~ Lat.	79	12	- 9
Regulatory Affairs 5 5 7 7 7 7 15 7 VP-Gov't & Comm Affairs' Office 7 5 7 7 7 7 7 Subtotal 18 16 22 21 22 22 30 2				,	0	7	0	0		
VP-Gov't & Comm Affairs' Office 7 5 7 7 7 7 7 Subtotal 18 16 22 21 22 22 30 2										
Subtotal 18 16 22 21 22 22 30 2										. 1
		IIII AIIGIIS OIICE				No	0.			
	Subtotal		18	16	22	21	22	22	30	2
		TALE	1416	1385		1451	1428	1445		155

^{* 2004} Recorded EOY counts reflect reorganizations that occurred in 2004 after the 2005 test year filling; only process area averages are available

^{**} Employee counts have been adjusted to exclude employees covered under the DSM surcharge adjustment docket from all years

¹ Updated to reflect D&O 23258: DSM employees previously removed from employee counts are added back

[&]quot;" Updated to reflect Production's revised staffing plan as stated in the June 2007 Update, HECO T-6.

[&]quot;" Updated to reflect retirement of VP-Special Projects as stated in June 2007 Updated, HECO T-7 and T-10

Ref: Lon K. Okada, HECO T-15, Income Tax Expense, Unamortized Net SFAS 109
Regulatory Asset, Unamortized State Investment Tax Credit, Accumulated Deferred
Income Taxes

Income Tax Expense

The Company will incorporate the effect of the special deduction on dividends paid on qualifying preferred stock as discussed in response to CA-IR-385 when it runs its revenue requirements for settlement/probable entitlement purposes.

Unamortized Net SFAS 109 Regulatory Asset

The unamortized net SFAS 109 regulatory asset balance has been updated due to: 1) actual 2006 recorded balance, 2) change in AFUDC equity gross up as further explained in the response to CA-IR-305, and 3) revised 2007 test year estimate of AFUDC. See June 2007 update of HECO-1506, HECO-1507, and CA-IR-305.

Unamortized State Investment Tax Credit ("ITC")

The State ITC has been updated due to: 1) actual 2006 recorded balance, 2) removal of the PV credit since the ownership structure has changed for the Ward PV project, and 3) revised 2007 test year estimate of plant additions. See June 2007 update of HECO-1504.

Accumulated Deferred Income Taxes

Accumulated deferred income taxes have been updated for: 1) actual 2006 recorded balance (also submitted in CA-IR-306), 2) estimated 2006 post year end adjustments, and 3) updated 2007 amounts for certain revised test year estimates of revenue and expenses.

Accumulated deferred income taxes have been changed from the direct testimony filing for: 1) the exclusion of the regulatory asset for AFUDC Equity gross up in CWIP as further explained in the response to CA-IR-305, 2) the full inclusion of TCI in CWIP as further

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explained in the response to CA-IR-305, 3) ratemaking adjustments for the reversal of Accumulated Other Comprehensive Income ("AOCI") as explained in direct testimony by Ms. Nanbu in HECO T-10, and 4) the exclusion of deferred taxes on integrated resource planning costs, consistent with HELCO Docket No. 05-0315.

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HECO-1504 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. STATE CAPITAL GOODS EXCISE TAX CREDIT FOR THE YEARS 2006 - 2007

(\$ Thousand)

		Actual 2006	Updated Test Year 2007	
STAT	<u>TE ITC</u>			
1 2 3 4	Beginning Balance Amortizations Additions (Net of Recap) Post Year Ends	26,481 (1,201) 3,198 45	28,523 (1,304) 2,803	
5	Ending Balance	28,523	30,022	
6	Average Balance		29,273	
STAT	E ITC ADDITION			
7 8	Total Plant Additions Less Land	H or	121,572 (823) 120,749	June 2007 update, HECO T-15, page 1
9 10	5 yr avg of Outside Materials & Ser State ITC Base	vices -	58.0321% 70,073	
11	Capital Goods Excise Tax Credit %		4%	
12	Capital Goods Excise Tax Credit	. 	2,803	

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HECO-1505 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. SUMMARY OF DEFERRED INCOME TAX LIABILITY BALANCES FOR RATE BASE PURPOSES FEDERAL AND STATE

10	Thousand	1
UD	Thousand)

(\$ T)	housand)					
		Direct per HECO-1505 Actual Balance 12/31/2005	Updated Actual Balance 12/31/2005	Actual (incl PYE) 2006 Adds (Amort), Net	2006 Ratemaking Adjustments	Actual (incl PYE) Balance 12/31/2006
	Accelerated Den	reciation over Str	aight Line			
1	FEDERAL	61,334	61,334	(1,586)		59,748
2	STATE	7,190	7,191	(316)		6,875
3	Subtotal	68,524	68,525	(1,902)	*	66,623
	All Other Items					
4	FEDERAL	81,443	75,848	(53,723)	50,616	72,741
5	STATE	14,598	13,575	(9,715)	9,264	13,124
6	Subtotal	96,041	89,423	(63,438)	59,880	85,865
7	TOTAL	164,565	157,948	(65,340)	59,880	152,488
			Actual (incl PYE) Balance 12/31/2006	Updated 2007 Adds (Amort), Net	2007 Ratemaking Adjustments	Updated Balance 12/31/2007
	Accelerated Depr	reciation over Stra	aight Line			
8	FEDERAL		59,748	(2,845)		56,903
9	STATE		6,875	(280)		6,595
	Subtotal		66,623	(3,125)	4	63,498
	All Other Items		70.741	(2 (10)	(2.170)	~~ 0.11
10	FEDERAL		72,741	(3,619)	(3,178)	65,944
11	STATE	3	13,124	(654)	(581)	11,889
	Subtotal		85,865	(4,273)	(3,759)	77,833
12	TOTAL		152,488	(7,398)	(3,759)	141,331
13	AVERAGE					146,910

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HECO-1506 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. SFAS 109 RECONCILIATION REGULATORY ASSETS AND LIABILITIES

(\$ Thousand)

		H Actual Balance 12/31/2005	I Actual 2006 Amort	J Actual 2006 Adds	K Actual Balance 12/31/2006	L Updated 2007 Amort	M Updated 2007 Adds	N Updated Balance 12/31/2007
1	CWIP Equity Transition (#18673100)	1,850	(85)		1,765	(75)		1,690
2	SFAS 109 Flow Through (#18673200)	3,264	(326)		2,938	(326)		2,612
3	Plant Transition (#18673300)	20,459	(1,023)		19,436	(1,023)		18,413
4	AFUDC Equity Gross up (#18673400)	30,280	(893)	2,585	31,972	(935)	3,485	34,522
5*	Adjustment for AFUDC Equity Gross up in CWIP	(4,171)		117	(4,054)		(494)	(4,548)
6	Federal ITC (#18673500)	(3,011)	539		(2,472)	487		(1,985)
7 8 9	Excess Deferred Taxes (#18673110 - Acct 282) (#18673900 - Acct 283) Subtotal	(1,809) (1,414) (3,223)	904 58 962	-	(905) (1,356) (2,261)	904 58 962		(1) (1,298) (1,299)
10 11	Deficit Deferred Taxes (#18673120 - Acct 282) (#18673190 - Acct 283)	2,216	(111)		2,105	(111)		1,994
12	Subtotal	2,216	(111)	Totaling was a series	2,105	(111)		1,994
13	TOTAL	47,664	(937)	2,702	49,429	(1,021)	2,991	51,399
13	AVERAGE BALANCE				48,547		_	50,414

^{* -} Line 5 represents the adjustments to exclude the AFUDC Equity Gross up still in CWIP.

NOTE: All SFAS 109 assets and liabilities and related taxes have been computed on effective tax rate of 32.8947368% (federal) and 6.0150376% (state).

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HECO-1507 DOCKET NO. 2006-0386 PAGE 1 OF 1

HAWAIIAN ELECTRIC COMPANY, INC. RECONCILICATION OF SFAS 109 REGULATORY ASSETS/LIABILITIES AND DEFERRED TAXES

(\$ Thousand)

		Α	В	C	D	E
		Regulatory	Federal	State		Total
		Asset/Liab	Def Tax	Def Tax	*	Def Tax
		Balance	Balance	Balance	Other	Balance
		12/31/2007	12/31/2007	12/31/2007	12/31/2007	12/31/2007
	Description		N-18-0			10/348
1	CWIP Equity Transition	1,690	(1,429)	(261)		(1,690)
2	SFAS 109 Flow Through	2,612	(2,207)	(404)	(1)	(2,612)
3	Plant Transition	18,413	(15,567)	(2,847)	1	(18,413)
4	CWIP Equity Ongoing	34,522	(29,189)	(5,338)	5	(34,522)
5	Federal ITC	(1,985)	1,678	308	(1)	1,985
6	Excess Accel Depr	(1)	-	s; =	1	1
7	Excess Deferred Taxes	(1,298)	428	79	791	1,298
8	Deficit Accel Depr	1,994	(658)	(120)	(1,216)	(1,994)
9	Deficit Deferred Taxes	_				-
10	TOTAL **	55,947	(46,944)	(8,583)	(420)	(55,947)

- * Column E amounts represent the net unamortized "base" SFAS 109 adjustments recorded in 1993 related to excess and deferred taxes booked to Reg Ass/Liab. Columns B and C represent the tax "gross up" of these "base" items.

 Lines 1 through 5 do not have comparable "base" amounts in Column D because their SFAS 109 adjustments only required a tax "gross up". The "base" on which this gross up was calculated resides in either plant in service or unamortized Federal ITC balance sheet accounts. On the other hand, the "base" for lines 6 through 10 were accounted for in the Reg Asset/Liab. Account.
- ** The total of \$55,947 does not match the total of \$51,399 per HECO-1506 (updated 6-29-07) because of the adjustment for AFUDC Equity Gross up in CWIP.

Column A is from HECO-1506, p. 2 (updated 6-29-07) Column B is from HECO-WP-1505, pp. 1-2 (updated 6-29-07) Column C is from HECO-WP-1505, pp. 3-4 (updated 6-29-07)

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REVISED CA-IR-305 DOCKET NO. 2006-0386 PAGE 1 OF 1 (UPDATED 6-29-07)

HAWAIIAN ELECTRIC CO., INC. REGULATORY ASSET - AFUDC EQUITY GROSS UP (#18673400)

			Actual 2002	Actual 2003	Actual 2004	Actual 2005	Actual 2006	Update 2007
	INAL							
	Beginning Balance		22,774	24,372	25,994	28,552	30,279	31,971
	Equity Gross up addition		2,238	2,326	3,328	2,567	2,585	3,485
	Amortization	-	(640)	(704)	(770)	(840)	(893)	(935)
	Ending Balance		24,372	25,994	28,552	30,279	31,971	34,521
	Average			25,183	27,273	29,416	31,125	33,246
REVI	SED							
	Beginning Balance		22,774	22,694	23,131	24,334	26,108	27,917
	Equity Gross up addition		2,238	2,326	3,328	2,567	2,585	3,485
	Adjustment							
	Add 25% of Current Year	25%	560	582	832	642	646	871
	Add 25% of Prior Year 1	25%		560	582	832	642	646
	Add 25% of Prior Year 2	25%			560	582	832	642
	Add 25% of Prior Year 3	25%				560	582	832
	Deduct Current Year	100%	(2,238)	(2,326)	(3,328)	(2,567)	(2,585)	(3,485)
	Total Adjustment		(1,679)	(1,185)	(1,355)	48	117	(494)
16	Amortization		(640)	(704)	(770)	(840)	(893)	(935)
	Ending Balance	-	22,694	23,131	24,334	26,108	27,917	29,973
	Difference		1,679	2,864	4,219	4,171	4,054	4,548
	Deferred Tax Effect of Reg A	sset: AFUDC	Equity Gro	ss up Adjust	tment			
	Federal	32.8947%	552	942	1,388	1,372	1,334	1,496
	State	6.0150%	101	172	254	251	244	274
9	Total	=	653	1,114	1,641	1,623	1,577	1,770

NOTE: This worksheet calculates the amounts of AFUDC Equity Gross up still in CWIP, and the related deferred tax effects.

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HECO-WP-1505 DOCKET NO. 2006-0386 PAGE 1 OF 4

HAWAIIAN ELECTRIC CO., INC. DEFERRED INCOME TAXES FEDERAL

LIAB	(DR)CR	Actual 12-31-05	Actual 2006	Actual 12-31-06	Estimate 2006 Post Year Ends	Revised 12-31-06	Updated 2007	Updated 12-31-07
28310	State ITC	18,723,396.50)	(656,997,22)	(9,380,393,72)	115,009,43)	(9,395,403.15)	(492,990.57)	(9.888,393.72)
	Unearned Lease	(5,570.77)	1,190.43	(4,380,34)	0.00	(4,380,34)	1,151.45	(3,228.89)
28312	Accrued Vacation	1,079,915.49	135.560.94	1.215,476,43	(68,909.00)	1,146,567.43	(5,060.19)	1,141,507,24
28313	Uncollectible Acct	(164,413.68)	(217,612.42)	(382,026.10)	(54,00)	(382,080.10)	0.00	(382,080.10)
28314		(30,699,97)	772.37	(29,927,60)	0.00	(29,927.60)	657.90	(29,269,70)
28317	Discounted Work Comp	(717,340.52)	(108.501.75)	[825,842,27]	0.00	(825,842.27)	0.00	1825,842.27)
28319 28321	Cap to Construction Pension	27,326,807.17 27,137,290.95	1.930,158.71 (4,683.108.57)	29,256,965.88 22,454,182,38	(873,00)	29,256,092.88 22,454,182.38	2,027,848.17 15,825,891.17)	31,283,941.05 16,628,291.21
28323		(457,845,47)	(11,564.14)	(469,409.61)	0.00	(469,409.61)	(4,621.28)	(474,030.89)
	Def Exec Comp	(53,922.55)	(3.502.04)	(57,424.59)	0.00	(57,424.59)	0.00	(57,424.59)
28327		(229,032.17)	52,895.71	(176,136,46)	(15,577,00)	(191,713.46)	(397,053,24)	(588,766,70)
28328	G/L ACRS Retirements	6,528,902.07	256,505,97	6,785,408.04	(60,504.00)	6,724,904.04	328,947.00	7,053,851,04
28329	Series U Exp (Bonds)	888.21	(888.21)	(0.00)	0.00	(0.00)	0.00	(0.00)
28330		(10,377.25)	17,838.6D)	(18,265.85)	0.00	(18,265.85)	0.00	(18,265.85)
28331		(14,051,826.76)	(545,158.21)	(14,596,984,97)	(163,749,00)	(14,760,733,97)	(2,382,782,34)	(17,143,516.31)
28332	Customer Advances Capitalized Interest	(327,834.50) (14,526,192.46)	8,448.00 (695,650.87)	(319,386,50) (15,221,843,33)	(13,680.00) (6,446.00)	(15,215,397.33)	(766,212,06)	(323,066,50) (15,98),609,39)
28335	Connection Fees	16,019.85	0.00	16,019.85	0.00	16,019.85	0.00	16,019.85
28336		108,651.51	(29,473.65)	79,177,86	0.00	79,177,86	0.00	79,177.86
28337	Supplemental Benefits -SERP	(528,723.95)	(80,710.05)	(609,434.00)	0.00	(609, 434, 00)	(64,637,58)	(674,071,58)
28338	Nondeductible Vacation	(1,084,196,31)	0.00	(1,084,196,31)	0.00	(1,084,196,3))	0.00	(1,084,196,31)
28340	LTIP	(133,406.96)	(50,949.94)	(184,356.90)	0.00	(184,356,90)	0.00	1184,356,90)
28341	Waipahu Baseyard Int	(111,861.55)	00.0	(111,861.55)	0.00	(111,86),55)	0.00	(111,861.55)
28347	Waiau Water Well Pmts	(409,340.04)	21,242.70	(388,097.34)	0.00	(388,097.34)	21,242.70	(366,854,64)
28348 28401	Nonutil Bad Debt Genl/Auto (& Accidents)	8,047.29 (321,709.95)	0.00 125,888,54	8,047,29 (195,821.41)	0.00	8,047,29 1195,821,41)	0.00	8,047.29 (195,821.41)
28403	CWIP Debt Transition	508,052,22	(20.889.45)	487,162,77	0.00	487,)62.77	120,891.10)	466,271,67
28404		1,565,578.43	173,137,41)	1,492,441.02	605,00	1,493,046,02	(63,797,96)	1,429,248.06
28405	Iolani Ct Plaza Sale	(74,584.81)	(80,469.77)	(155,054,58)	(346,51)	1155,401.09)	45,308.42	1110.092,67)
28406	Kaonohi Sale	37,751.68	0.00	37,751.68	0.00	37,751.68	0.00	37,751.68
28407	FAS 109 Flow Through	2,758,603.52	(275,857.92)	2,482,745.60	0.00	2,482,745.60	(275,857.92)	2,206,887.68
28408	Plant Transition	17,296,323.51	(864,818.44)	16,431,505.07	0.00	16,431,505.07	(864,818.44)	15,566,686,63
28409	CWIP Equity Net	15,644,495.55	870,569.79	16,515,065,34	0.00 2,184.00	16,515,065.34 10,5)7.443.54	1,318,118.59 838,928,66	17,833,183,93
28410	CWIP Equity Grossup CWIP Debt	10,040,442.29 7,807,840.45	474,817.25 369.242.24	10,515,259.54 8,177,082.69	0.00	8,177,082.69	629,667.72	11,356,372.20 8,806,750.41
		(32,960.47)	(12,730.56)	(45,691.03)	D.00	(45,691,03)	0.00	(45,691.03)
28413	Post Retirement Ben	111,091,34	(715,278.43)	(604.187.09)	16,527.00	(587,660,09)	(578,141.78)	(1,165,801,87)
28414	Reg Liab Federal ITC	(2,545,082.99)	455,906,40	(2.089, 176.59)	(192.00)	(2,089,368,59)	411,582.43	(1,677,786.16)
28418	IRP & DSM Costs	129,059.35	(140,771.37)	(11,712.02)	1,472.00	(10,240,02)	11,059.65	819,63
28419	Reg Liab Excess 283	(465,398.01)	18,947.35	[446,450.66]	0.00	(446,450.66)	18,947.35	(427,503,31)
28420	Reg Liab Deficit 283	963.74	(963.74)	0,00	0.00	0.00	0.00	0.00
	Miscellaneous	(28,511.60)	0.00 78,269.68	(28.511.60)	0.00	(28,511.60) 643,610.56	0.00	(28,511.60) 643,610.56
28427 28430	Prepaid Expenses FMB X Premium	565,340.88 239,276.86	(21,918.73)	643,610.56 217,358.13	0.00	217,358,13	(21,918,73)	195,439,40
	EEO Claims	(107,473.07)	99.341.85	(8,131,22)	D.00	(8,131,22)	D.OD	(8.131.22)
	Differential	1,016,125.29	172,363.12)	943,762.17	0.00	943,762.17	(71,683.80)	872,078.37
28436	TIP	(198,307.46)	254.144.45	55,836,99	0.00	55,836,99	0,00	55.836.99
28440	Kalacioa	(181,499.38)	15,153.83	1166,345.55)	0.00	[166,345.55]	15,153.83	(151.191.72)
28441	Sun Power	577.09	0.00	577.09	0.00	577.09	0.00	577.09
	Overhaul	(74,991.33)	11.355.07	(63,636,26)	0.00	163,636,26)	11,357.62	(52.278.64)
	Substation land - Wilder	209.00	(209.00)	0.00 1,101,086.96	D.0D 0.00	0.00 1,101,086,96	0.00 229,855.82	0.00 1,330,942,78
28512	Revenue Bond Cost Amort Honolulu Harbor Reserve	1,236,501.83 (239,745.24)	(342,870,14)	1582,615.38)	68.888.00	1513,727,38)	0.00	1513,727.38)
28520	Deferred Comp - restricted stock	12,357.59	49,489,94	61,847.53	0.00	61,847.53	84,210.58	146,058.11
28522	Knapp lawsuit	(6,578.65)	6,578,47	10.181	0.00	(0.18)	0.00	(0.18)
	Software (E-business only)	22,527.51	122,527,511	0.00	0.00	0.00	0.00	0.00
28526	Etnissions Fees	(313,673,39)	(11.598.34)	(325,271.73)	0.00	1325.271.73)	0.00	(325,271.73)
28528	Substation land - Kuliouou	(48,039.88)	12,980,14	(35,059,74)	3)5.22	134,744.52)	13,134.14	(21.619,38)
	AES Hawaii PPA	(47,987,44)	2,879.27	145,108.17)	0.00	(45,108,17)	2,879,27	142,228.90)
	CIS Project Costs Substation land - Queen Emma	(111,599.99)	(182,118,66) 83,071,50	1293,718,65) 1292,989,581	0.00 2,210,32	(293,718.55) (290,779.26)	0.0D 92,096.50	(293,718,65) 1198,682,76)
	Rate Case - TY 2005 & 2007	(376,061.08) 222,272.28	(71,345.40)	150,726.88	38,426.00	189,152.88	191,135.34	380,288,22
	Kalacioa PPA	(70,078.09)	11.135.75)	(71,213,84)	0.00	(71,213,84)	7,630.25	(63,583,59)
	QUIPS amortization	569,248.38	125.761.60)	543,486,78	0.00	543,486.78	125,761,60)	517,725.18
	OPEB Exec Life	(2,650,482.48)	(248,271.76)	(2,898,754.24)	D.D0	12,898,754,24)	1271.710.22)	13,170,464,46)
	Percentage Repairs Allowance	1,295,258.00	327,724.97	1,622.982.97	1,231,432,00	2,854,414.97	(214,082,53)	2,640,332.44
28548	Capitalized Interest (D&T)	3,849,215.00	404,916.87	4,254,131.87	565,023,00	4.879,154.87	1344,486.23)	4,474,668,64
28550	E-Business hardware	9,645.18	20,919.11	30,564.29	0.00	30,564,29	1,677.67	32,241,96

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HAWAIIAN ELECTRIC CO., INC. DEFERRED INCOME TAXES FEDERAL

LIAB (DR)CR	Actual 12-31-05	Actual 2006	Actual 12-31-06	Estimate 2006 Post Year Ends	Revised 12-31-06	Updated 2007	Updated 12-31-07
28554 Substation Land - Palolo	12 01 00	(13,773,92)	(13,773,92)	0,00	(13,773.92)	2,899,77	(10,874.15)
28556 Substation Land - Waianae		(34,148,47)	(34,148,47)	0.00	(34,148.47)	7,317.53	(26,830,94)
28558 Aiea Park Place			0.00	0.00	0.00	(40,805.88)	(40,805.88)
28560 Software - OMS			0.00	0.00	0.00	167,207.71	167,207.71
AOC1 - Qualified Pension		(43,242,752,87)	(43,242,752.87)	0.00	(43,242,752.87)	2,400,154.00	(40,842,598.87)
AOC1 - NQ Pension	(14,920.34)	(108,665.19)	(123,585.53)	0.00	(123,585.53)	(11,900.00)	(135,485,53)
AOC1 - OPEB		(7,776.112.50)	(7,776,112.50)	0.00	(7,776,112,50)	902,475,00	(6,873,637.50)
AOC1 - OPEB Exec Life		511,926.32	511,926,32	0.00	511,926.32	(112,877.00)	399,049,32
TOTAL ACCOUNT 283	77,669,612.45	(54,987,212,72)	22,682,399.73	1,604,634,60	24,287,034.33	(3,075,336.55)	21,211,697.78
ACCOUNT 282 DEPR	61,334,780.24	(2,120,299,10)	59,214,481.14	534,712,00	59,749,193.14	(2,844,724.43)	56,904,468.71
TOTAL FEDERAL DEFERRED TAX			A	# N	110000		SW097100
LIABILITY (before rate case adjustments)	139,004,392.69	(57,107,511,82)	81,896,880.87	2,139,346.60	84,036,227.47	(5,920,060.98)	78,116,166,49
TOTAL ACCOUNT 283	77,669,612.45	(54,987,212.72)	22,682,399,73	1,604,634.60	24,287,034,33	(3,075,336,55)	21,211,697.78
Less Rate Case Adjustments;							William Colonia State (West and Horsey)
28312 Accrued Vacation	1,079,915.49	135,560,94	1,215,476.43	(68,909,00)	1,146,567,43	(5,060.19)	1,141.507.24
28313 Uncollectible Account	(164,413.68)	(217,612.42)	(382,026,10)	(54.00)	(382,080.10)	0.00	(382,080,10)
28314 Directors Def Comp	(30,699.97)	772.37	(29,927.60)	0.00	(29,927,60)	657.90	(29,269.70)
28317 Discounted Work Comp	(717,340.52)	(108,501,75)	(825,842,27)	00.0	(825,842.27)	0.00	(825,842.27)
28323 Excess Benefit Plan	(457,845.47)	(11,564,14)	(469,409.61)	0.00	(469,409.61)	(4,621.28)	(474,030.89)
28326 Def Exec Comp (Def LTIP)	(53,922.55)	(3,502.04)	(57,424.59)	0.00	(57,424.59)	0.00	(57,424,59)
28330 EICP 28336 Nondeductible Interest	(10,377.25)	(7.888.60)	(18.265.85)	0.00	(18,265,85)	0.00	(18,265,85)
28337 Supplemental Benefits -SERP	108,651.51	(29,473.65) (80,710.05)	79,177.86	0.00 0.00	79,177.86 (609,434,00)	(64,637,58)	79,177.86 (674,071.58)
28338 Nondeductible Vacation	(528,723.95) (1,084,196,31)	0.00	(609,434,00) (1,084,196,31)	0.00	(1,084,196.31)	0.00	(1,084,196,31)
28340 LTIP	(133,406.96)	(50,949,94)	(184,356.90)	0.00	(184,356.90)	0.00	(184,356.90)
28341 Waipahu Baseyard Int	(111,861.55)	0.00	(111,861.55)	0.00	(111,861.55)	0.00	(111,861,55)
28347 Waiau Water Well Prints	(409,340.04)	21,242.70	(388,097.34)	0.00	(388,097.34)	21,242.70	(366,854.64)
28348 Nonutil Bad Debt	8,047.29	0.00	8,047.29	0.00	8,047,29	0.00	8,047.29
28401 Genl/Auto (& Accidents)	(321,709.95)	125.888.54	(195,821.41)	0.00	(195,821.41)	0.00	(195,821.41)
28412 Genl/Auto Legal	(32,960.47)	(12,730.56)	(45,691.03)	0.00	(45,691.03)	0.00	(45,691.03)
28418 IRP & DSM Costs	129,059,35	(140,771,37)	(11,712.02)	1,472.00	(10,240.02)	11,059.65	819.63
28434 EEO Claims	(107,473.07)	99,341.85	(8,131.22)	0.00	(8.131.22)	0.00	(8,131.22)
28436 TIP	(198,307,46)	254,144.45	55,836,99	0.00	55,836.99	0.00	55,836.99
28520 Deferred Comp - restricted stock	12,357.59	49,489,94	61,847.53	0.00	61,847,53	84,210.58	146,058.11
28538 Rate Case - TY 2005 & 2007	222,272.28	(?1,545,40)	150,726.88	38,426,00	189,152.88	191,135.34	380,288.22
28544 OPEB Exec Life	(2,650,482.48)	(248,271.76)	(2,898.754.24)	0.00	(2.898,754.24)	(271,710.22)	(3,170,464.46)
28550 E-Business hardware	9,645.18	20,919,11	30.564.29	0.00	30,564.29	1,677.67	32,241.96
AFUDC in CWIP	5,907,301.97	683,961.55	6,591,263.52	0.00	6,591,263.52	417,635.06	7,008,898.58
Reg Asset: AFUDC Equity Gross	1,372,164,77	(38,404.72)	1,333,760.05	0.00	1,333,760.05	162,356,08	1,496,116,13
FED DEF'D TAX LIABILITY - OTHER	75,833,258.70	(55,356,607,77)	20,476,650.93	1,633,699,60	22,110,350,53	(3,619,282,26)	18,491,068.27
FED DEF'D TAX LIAB - ACCEL DEPR	61,334,780.24	(2.120,299.10)	59,214,481.14	534,712.00	59,749,193.14	(2,844,724.43)	56,904,468.71
TOTAL FEDERAL DEFERRED TAX		/		//			
LIABILITY (after rate case adjustments)	137,168,038.94	(57,476,906,87)	79,691,132,07	2.1/8,411.60	81,859,543.67	(6,464,006,69)	75,395,536.98
RATEMAKING ADJUSTMENT:			(1,585,587,10)	(51,722,908,17)			
AOC1 - Qualified Pension	0.00	(43,242,752.87)	(43,242,752.87)	0.00	(43,242,752.87)	2,400,154.00	(40,842,598,87)
AOC1 - Quantied Pension	(14,920,34)	(108,665,19)	(123.585.53)	0.00	(123,585.53)	(11,900.00)	(135,485,53)
AOC1 - OPEB	0.00	(7,776,112.50)	(7,776,112.50)	0.00	(7,776,112.50)	902,475.00	(6.873,637.50)
AOCI - OPEB Exec Life	0.00	511,926.32	511,926.32	0.00	511,926.32	(112,877.00)	399,049.32
TOTAL RATEMAKING ADJUSTMENT	(14,920.34)	(50,615,604,24)	(50,630,524,58)		(50,630,524,58)	3,177,852.00	(47,452,672,58)
TOTAL	137,153,118.60	(108,092,511.11)	29,060,607.49	2,168,411.60	31,229,019.09	(3,286,154.69)	27,942,864.40
(5							

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HAWAIIAN ELECTRIC CO., INC. DEFERRED INCOME TAXES STATE

1.1AB (DR)CR	Acrual 12-31-05	Actual 2006	Actual 12-31-06	Estimate 2006 Post Year Ends	Revised 12-31-06	Updated 2007	Updated 12-31-07
28310	State ITC	(1,592,836.25)	(112,123.00)	(1,704,959.25)	(2,744.58)	(1,707,703.83)	(90,146,39)	(1,797,850.22
	Unearned Lease	(940.85)	217.86	(722,99)	0.00	(722,99)	210.55	(512.44
	Accrued Vacation	174,464.34	24,788,18	199,252,52	(12,601.00)	186,651.52	(925,29)	185,726.23
	Uncollectible Acet	(25,425.28)	(39,791,991	(65,217,27)	(10.00)	(65,227,27)	0.00	(65,227.27
	Directors Def Comp	(4,711.68)	141.23	(4.570.45)	0.00	(4,570,45)	120.30	(4,450.15
	Discounted Work Comp	(131,170.07)	(19,840.26)	(151,010.33)	0.00	(151,010.33)	0.00	(151,010.33
	,	5,004,992.75	350,390.02	5,355,382,77	0.00	5,355,382.77	370.963.33	5.726,346.10
	Pension	4,962,223.54 (79,192,89)	(856,335,46)	4,105,888.08 (78,878,47)	0.00	4.105,888.08 (78,878.47)	(1,065,300,35)	3,040,587.73 (79,723.50)
	Excess Benefit Plan Def Exec Comp	(9,861.22)	314.42 1640.37)	(10,501.59)	0.00	(10.501.59)	0.00	(10,501.59
	Software	(61,942,30)	28,164.76	(33,777,54)	(2,849.00)	(36,626.54)	(65,420.30)	(102,046.84
-	G/L ACRS Retirements	1,181,413.40	49,254.63	1,230,668.03	(4,965.00)	1,225,703.03	60,150.00	1,285,853.03
	Series U Exp (Bonds)	162.41	(162.41)	0.00	0.00	(1.00	0.00	0.00
28330		(1.898.00)	(1,442.82)	(3,340.82)	0.00	(3,340.82)	0.00	(3,340.82)
28331		(2,777,711.57)	(96,793.08)	(2.874,504,651	(29,943.00)	(2,904,447.65)	(433.031.02)	(3,337,478.67
28332	Customer Advances	(59,283.32)	1,544.00	(57,739,32)	(673.00)	(58,412,32)	0.00	(58,412.32
28333	Capitalized Interest	(2,772,268,40)	(243,218.08)	(3,015,486,48)	1,179,00	(3,014,307,48)	(132,676,31)	(3,146,983.79
28335	Connection Fees	8,444.14	0.00	8,444.14	0.00	8,444.14	0.00	8,444,14
28336	Nondeductible Interest	19,867.86	(5,384.44)	14,478,42	0.00	14,428,42	(),00	14,478.42
28337	Supplemental Benefits -SERP	(89,328.46)	(11,826,39)	t101,154.85)	(1,00	(101,154.85)	(11,819,38)	(112,974.23
	Nondeductible Vacation	(195,605.00)	0.00	(195,605,00)	0.00	(195,605,00)	(1.00	(195,605.00
28340		(24,394.45)	(9.316.51)	(33,710,96)	0.00	(33,710.96)	0.00	(33,710.96
28341	Waipahu Baseyard Int	(20,452.91)	0.00	(20,452.91)	0.00	(20.452.91)	0.00	(20,452,91)
	Waiau Water Well Prints	(76,069.44)	4,285.36	(71,784.08)	0.00	(71,784.08)	3,884.36	167,899.72
	Genl/Auto (& Accidents) CWIP Debt Transition	(58,826.48)	23,019.11	(35,807,37) 89,083,34	0.00	(35,807,37) 89,083,34	(3,820,07)	(35,807.37 85,263.27
	CWIP Equity Trans	92,903.11 286,277.56	(3,819.77) (13,373.63)	272,903.93	111.00	273.014.93	(11,665.85)	261,349.08
COSTAN AND LONG	Iolani Ct Plaza Sale	(1,209.85)	(11,572.04)	(12,781.89)	990.02	(11.791.87)	8.284.93	(3,506.94
	Kaonohi Sale	6,942.61	0.00	6,942.61	(1.00	6,942,61	0.00	6,942.61
	FAS 109 Flow Through	504,384.75	(50,442,34)	453,942.41	0.00	453,942.41	(50,442,34)	403,500.07
	Plant Transition	3,162,783.95	(158,137.41)	3,004,646.54	0.00	3,004.646.54	(158,137,41)	2,846,509.13
	CW1P Equity Net	2,860,698.60	159,189.09	3,019,887,69	0.00	3,019,887.69	241,026.16	3,260,913.85
28410	CWIP Equity Grossup	1,835,959.83	86,823,21	1,922,783.04	399.00	1.923,182.04	153,403,31	2,076,585.35
28411	CWIP Debt	1,431,256,12	67,517.97	1,498,774.09	0.00	1,498,774.09	115,138.64	1.613,912.73
28412	General/Auto Liability - Legal	(6,027.01)	(2,328.05)	(8,355,06)	0.00	(8,355.06)	0,00	(8,355.06)
	Post Retirement Ben	2,777.20	(133,221,79)	(130,444,59)	3,022.00	(127,422.59)	(105,716,82)	(233,139.41)
	Reg Liab Federal ITC	(466,222.88)	83,365.31	(382,857,57)	(35.00)	(382,892.57)	75,260.40	(307,632.17)
	IRP & DSM Costs	23,567.28	(25,577.73)	(2,010.45)	269,00	(1,741.45)	2,154,09	412.64
	Reg Liab Excess 283	(85,741.30)	3,464.64	(82,276.66)	0.00	(82,276,66)	3.464.64	(78,812.02)
	Reg Liab Deficit 283	568.95	(568.95)	(1.00	00,0	0.00 611.03	0.00	0.00 611.03
	Miscellaneous Prepaid Expenses	611.03 103,375,99	0.00	611.03 117,688.09	0.00	117,688.09	0.00	117,688.09
	FMB X Premium	43,754.59	(4,007.97)	39.746,62	0.00	39,746.62	(4,007,97)	35,738,65
	EEO Claims	(19,652.15)	18,165.27	(1,486.88)	0.00	(1.486.88)	0.00	(1,486.88)
70000	Differential	167,311,43	4,148,96	171,460,39	0.00	171,460.39	(13,107.83)	158,352.56
28436		(40,563.69)	50,513.89	9,950.20	0.00	9,950.20	0.00	9,950.20
	Kalaeloa	4,278.79	5,541,97	9.820.76	0.00	9,820.76	2,770,92	12,591.73
28441	Sun Power	(1,649.28)	1,649.00	(0.28)	0.00	(0.28)	0.00	(0.28)
28442	Overhaul	(13,713.12)	2.076.35	(11,636,77)	0.00	(11,636,77)	2,076,81	(9,559.96)
28508	Substation land - Wilder	(596.00)	596.00	0.00	0.00	0.00	0.00	0.00
	Revenue Bond Cost Amort	226,102.58	124,761.451	201,341.13	0.00	201.341.13	42,030.57	243.371.70
	APPRISE Software	0.00	22,551.00	22,551.00	0.00	22.551.00	0.00	22,551.00
	Honolulu Harbor Reserve	(43,839.23)	(62,696.90)	(106,536,13)	12.597.00	(93,939,13)	0.00	(93,939,13)
	Deferred Comp - restricted stocl	2,259.87	9,049,54	11,309,41	0.00	11,309.41	15,398,43	26,707.84
	Knapp lawsuit	(1,203.05)	1,203.50	0.45	0.00	0.45	0.00	0.45
	Emissions Fees	(57,357.68)	(2,120.83)	(59,478,51)	(1.00	(59,478.51)	0.00	159,478.511
	Substation land - Kuliouou	(4,423.04)	1,445,66	(2,977.38)	1900,631	(3.878.01)	2,401.66	(1.476.35)
	AES Hawaii PPA	(8,775.00)	526.49	(8.248.51)	0.00	(8,248.51)	526.49	(7,722,02)
	CIS Project Costs	(20,406.75)	(33,301,34)	(53,708.09)	0,00	(53,708,09)	0.00	(53,708,09)
	Substation land - Queen Emma Rate Case - TY 2005 & 2007	(68,765.45)	42,627,42	(26.138.03) 27,561.69	(6.315.20) 7,026.00	(32.453,23) 34,587,69	16,840,42 34,950,28	(15,612.81) 69,537.97
	Kalaeloa PPA	40,644.21 (12,813.88)	(13.082.52) (207.76)	113,021,641	0.00	(13,021.64)	1.395,24	(11,626.40)
Control of the contro	QUIPS amortization	104,091.30	(4,719,67)	99,380.63	0.00	99,380,63	(4,710,67)	24,669,96
	OPEB Exec Life	(484,657.38)	(45,398,031	(530.055.41)	0.00	(530,055,41)	(4,710,07)	(579,739,31)
	Percentage Repairs Allowance	236,847.00	163,694,98	400,541.98	225,176.00	625,717,98	(46,929,51)	578,788.47
	Capitalized Interest (D&T)	724,104.00	104,706,44	828,810,44	103.319.00	932,129,44	(66,809,37)	865,320,07
	E-Business hardware	2,276,20	5.072.14	7,348.34	0.00	7.348.34	607.55	7,955.89
	Manager and American Company of the	0.00	0.00	0.00	0.00	0.00	2.154.09	2,154.09

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REVISED HECO-WP-1505 DOCKET NO. 2006-0386 PAGE 4 OF 4

HAWAIIAN ELECTRIC CO., INC. DEFERRED INCOME TAXES STATE

LIAB (DR)CR	Actual 12-31-05	Actual 2006	Actual 12-31-06	Estimate 2006 Post Year Ends	Revised 12-31-06	Updated 2007	Updated 12-31-07
28554 Substation Land - Palolo	12 51 05	(2,518.65)	(2,518.65)	0.00	(2,518.65)	530.24	(1,988.41)
28556 Substation Land - Waianae		(6,244,26)	(6,244,26)	0.00	(6,244.26)	1,338,06	(4.906.20)
28558 Aiea Park Place		1,000	0.00	0.00	0.00	(7,461.61)	(7,461.61)
28560 Software - OMS			0.00	0.00	0.00	30,574.97	30,574.97
AOCI - Qualified Pension		(7,916,250.46)	(7,916,250,46)	0.00	(7,916,250,46)	438,885.00	(7,477,365,46)
AOCI - NQ Pension	(2,728.31)	(19,870.19)	(22,598.50)	0.00	(22.598.50)	(2,176.00)	(24,774.50)
AOCI - OPEB	(2,7201)	(1,421,917.72)	(1,421,917.72)	0.00	(1,421,917.72)	165,024.00	(1,256,893.72)
AOCI - OPEB Exec Life		93,609,38	93,609.38	0.00	93,609.38	(20,640.00)	72.969.38
NOCE OF ED LACE LIE		2.3003.20	723037.20		553000 735100	(2017) (0.007)	.2
TOTAL ACCOUNT 283	13,899,634.53	(9,934,275.46)	3,965,359.07	293,051.61	4,258,410,68	(553,907,93)	3,704,502,75
TOTAL ACCOUNT 200	15,077,054.55	(7,727,273,70)	3.77. 32.2.7.07	233,02 (33)	1,220.110.00	13.2.11.11.11.2	
ACCOUNT 282 DEPR	7,190,668.65	(409,111.70)	6,781.556.95	92,799.00	6,874,355.95	(279,895,68)	6,594,460,27
TOTAL STATE DEFERRED TAX							
LIABILITY (before rate case adjustmen	21,090,303,18	(10,343,387,16)	10,746,916,02	385,850.61	11,132,766,63	(833,803.61)	10,298,963.02
TOTAL ACCOUNT 283	13,899,634.53	(9,934,275,46)	3,965,359,07	293,051,61	4,258,410.68	(553,907.93)	3,704,502.75
Less Rate Case Adjustments:							
28312 Accrued Vacation	174,464.34	24,788.18	199,252.52	(12,601.00)	186,651.52	(925,29)	185,726,23
28313 Uncollectible Account	(25,425.28)	(39,791.99)	(65.217.27)	(10.00)	(65,227.27)	0.00	(65.227,27)
28314 Directors Def Comp	(4,711.68)	141.23	(4,570.45)	0.00	(4.570.45)	120.30	(4,450.15)
28317 Discounted Work Comp	(131,170.07)	(19,840.26)	(151,010.33)	0.00	(151,0)0.33)	00.0	(151,010,33)
28323 Excess Benefit Plan	(79,192.89)	314,42	(78.878.47)	0.00	(78.878.47)	(845.03)	(79,723.50)
28326 Def Exec Comp (Def LTIP)	(9,861.22)	(640.37)	(10,50).59)	0.00	(10,501.59)	0.00	(10,501.59)
28330 EICP	(1,898,00)	(1,442.82)	(3,340.82)	0.00	(3,340,82)	0.00	(3,340.82)
28336 Nondeductible Interest	19,867.86	(5,389,44)	14,478.42	0.00	14,478.42	0.00	14,478.42
28337 Supplemental Benefits -SERP	(89,328.46)	(11,826,39)	(101,154.85)	0.00	(101,154.85)	(11,819.38)	(112,974.23)
28338 Nondeductible Vacation	(195,605.00)	0.00	(195,605.00)	0.00	(195,605.00)	0.00	(195,605,00)
28340 LTIP	(24,394,45)	(9,316,51)	(33,710.96)	0.00	(33,710.96)	0.00	(33,710.96)
28341 Waipahu Baseyard Int	(20,452.91)	0.00	(20,452.91)	0.00	(20,452.91)	0.00	(20,452.91)
28347 Waiau Water Well Pints	(76,069.44)	4.285.36	(71,784.08)	0.00	(71,784.08)	3,884.36	(67,899.72)
28348 Nonutil Bad Debt	1,317.69	0.00	1,317,69	0.00	1,317,69	0.00	1,317.69
28401 Genl/Auto (& Accidents)	(58,826.48)	23,019.11	(35,807,37)	0.00	(35,807,37)	0.00	(35,807.37)
28412 Gcnl/Auto Legal	(6,027.01)	(2,328.05)	(8,355,06)	0.00	(8.355.06)	0.00	(8,355.06)
28434 EEO Clauns	(19,652.15)	18,165.27	(1,486.88)	0.00	(1,486.88)	0.00	(1,486.88)
28436 TIP	(40,563.69)	50,513.89	9,950.20	0.00	9,950.20	0.00	9,950.20
28469 IRP & DSM Costs	23,567.28	(25,577,73)	(2,010,45)	269.00	(1,741.45)	2.154.09	412.64
28520 Deferred Comp - restricted stocl	2,259.87	9,049.54	11,309,41	0.00	11,309.41	15,398,43	26,707.84
28538 Rate Case - TY 2005 & 2007	40,644.21	(13.082.52)	27,561.69	7,026.00	34,587.69	34,950.28	69,537,97
28544 OPEB Exec Life	(484,657,38)	(45,398.03)	(530,055.41)	0.00	(530.055.41)	(49,683,90)	(579,739.31)
28550 E-Business hardware	2,276.20	5,072.14	7,348,34	0.00	7,348.34	607.55	7,955.89
AFUDC in CWIP	1,080,186.82	125,066.61	1.205,253.43	0.00	1,205,253,43	76,367.16	1,281,620.59
Reg Asset: AFGDC Equity Gros	250,908.84	(7,022.54)	243,886,30	0.00	243,886.30	29,687.82	273,574.12
STATE DEED TAX LIABILITY - OTH	13,571,977.53	(10,0)3,034,56)	3,558,942,97	298,367,61	3,857,310,58	(653,804.32)	3,203,506,26
STATE DEFD TAX LIAB - ACCEL DE	7,190,668.65	(409,111,70)	6,781,556,95	92,789.00	6,874,355.95	(279,895.68)	6,594,460.27
				//			
TOTAL STATE DEFERRED TAX				//			
LIABILITY (after rate case adjustments	20,762,646.18	(10,422,146,26)	(0,340,499,93	791,166.61	10,731,666.53	(933,700,00)	9,797,966.53
			(316,312,70)	(9,714,666,95)			
RATEMAKING ADJUSTMENT:				And the second			
AOC1 - Qualified Pension	0.00	(7,916,250,46)	(7,916,250.46)	0.00	(7,916,250.46)	438,885.00	(7,477,365,46)
AOCI - NQ Pension	(2,728.31)	(19,870.19)	(22,598.50)	0.00	(22,598.50)	(2,176,00)	(24,774,50)
AOCI - OPEB	0.00	(1,421,917.72)	(1,421,917,72)	0.00	11,421,917.721	165,024,00	(1,256.893.72)
AOCI - OPEB Exec Life	0.00	93,609.38	93,609,38	0.00	93,609,38	(20,640.00)	72,969,38
TOTAL RATEMAKING ADJUSTMEN	(2,728.31)	(9.264,428.99)	(9,267,157,30)	0.00	(9.267,157.30)	581,093.00	(8,686,064,30)
707.11	20 760 21-05	10.002.002	1 695 545 45	501 147 21	1.4/1.500.33	2353 263 00°	1 111 000 00
TOTAL	20,759,917.87	(19,686,575.25)	1,073,342,62	391,166.61	1,464,509.23	(352,607.00)	1,111,902.23

JUNE 2007 UPDATE

Ref: Gayle T. Ohashi, HECO T-17, Rate Base

The following updates were made to HECO T-17 including:

- Rate base components and rate base amounts.
- Inclusion of the Asset Retirement Obligation ("ARO") regulatory asset in rate base.
- Refined method of calculating working cash and lag days.
 - Updates to working cash due to proposed implementation of pension tracking mechanism.
 - Updates to working cash due to proposed implementation of OPEB tracking mechanism.
 - Updates to the revenue tax payment lag days.

Rate Base

Certain rate base components have been updated and are shown on page 7. The updated rate base components were provided by the applicable witness and are referenced accordingly. Support and discussion of the updated rate base components are provided by the applicable witness.

ARO Regulatory Asset

HECO erroneously excluded the Asset Retirement Obligation ("ARO") regulatory asset from rate base in direct testimony. This regulatory asset represents HECO's cost of removal for certain assets as calculated under Financial Accounting Standards Board ("FASB") Interpretation No. 47, "Accounting for Conditional Asset Retirement Obligation" ("FIN No. 47"), adopted in December 2005. FIN No. 47 and the ARO regulatory asset are further described in the response

to CA-IR-41 and by Mr. Bruce Tamashiro in HECO T-13. There should be no impact on rate base from the adoption of FIN No. 47 and from the recording of the ARO. The net book value of the asset cost related to the ARO, plus the regulatory asset, net of the ARO liability should sum to zero. The related ARO liability reduces the net cost of plant in service as presented in updated HECO-WP-1702 on page 13 and inclusion of this regulatory asset in rate base will result in no impact on rate base from the adoption of FIN No. 47. The test year estimate of the unamortized ARO regulatory asset is \$27,000, as shown on page 10.

Working Cash Calculation

HECO is not updating its working cash estimate at this time but has made refinements to the working cash calculation due to the implementation of the pension and OPEB tracking mechanisms and a change to the revenue tax payment lag. The updated payment lags are shown on page 12. The working cash estimate will be updated upon the finalization of all the updates and the recalculation of the revenue requirement.

Pension

The proposed pension tracking mechanism as discussed by Ms. Patsy Nanbu (T-10) in the June 2007 Update resulted in several changes to the calculation of working cash. Changes include calculating the payment lag for test year pension expense (NPPC) and adjusting the working cash calculation for the pension asset amortization.

The pension tracking mechanism requires HECO to make contributions to the pension plan equal to the NPPC. Therefore, a payment lag of 14 days was calculated for pension expense and included in the updated calculation of the weighted average payment lag for O&M non-labor as shown on page 14. The payment lag for pension expense was determined based on the

anticipated monthly payments that would have been made or will be made upon implementation of the pension tracking mechanism. Details of the pension payment lag study are provided on page 15. However, if the pension tracking mechanism is not implemented, the payment lag for pension expense would be zero as previously submitted in direct testimony on HECO-WP-1706, page 32 and as described in HECO T-17.

The pension tracking mechanism proposes amortization of the pension asset in rate base over a ten year period. Therefore, the pension asset amortization expense is included in the test year revenue requirement and included as a separate component of working cash. The amortization expense is included in working cash with a revenue collection lag consistent with all other items (37 days) and a payment lag of zero. The revenues associated with the amortization expense are not received at the same time the expense is recognized and are subject to the same revenue collection lag as any other item. As stated in HECO T-17, HECO's position is that all revenues should be included in the calculation of working cash needs associated with the revenue collection lag.

The payment lag days for amortization expense is zero. As discussed in HECO T-17, a payment lag occurs when the Company incurs an obligation to pay for an item or service before the Company actually pays for it. Because the amortization expense relates to payment and expense recognition prior to the test year which is captured in the pension asset amount in rate base, HECO has applied a zero day payment lag to the amortization expense as shown on page 16.

The revenue requirement calculation model was also modified to correctly capture the impact of the pension asset amortization expense on income taxes and working cash. The

amortization expense is an operating expense and a deduction in arriving at taxable income in calculating total income taxes. As previously modeled, the tax impact of the amortization expense was reflected in the current income tax expense and included in the calculation of working cash from income taxes. However, the amortization expense should impact deferred taxes instead of current taxes. The revenue requirement modeling was adjusted to remove the tax effects of the amortization expense from the calculation of the current tax expense.

OPEB

The proposed OPEB tracking mechanism as discussed by Ms. Patsy Nanbu (T-10) in the June 2007 Update resulted in a change to the payment lag for test year OPEB expense (NPPBC).

The OPEB tracking mechanism requires HECO to make contributions to the OPEB plan equal to the NPPBC. Therefore, a payment lag of 85 days was calculated for OPEB expense and included in the updated calculation of the weighted average payment lag for O&M non-labor as shown on page 14. The payment lag for OPEB expense was determined based on the anticipated quarterly payments that have been made or will be made. Details of the study are provided on page 15. However, if the OPEB tracking mechanism is not implemented the payment lag for OPEB expense would be zero as previously submitted in direct testimony on HECO-WP-1706, page 32 and as described in HECO T-17.

Revenue Tax Payment Lag

The revenue tax payment lag days was corrected from 76 days in direct testimony at HECO-WP-1706, page 43, to 66 days as shown on page 17 in this update. Subsequent to the filing of direct testimony, HECO identified three errors in the determination of the PSC tax payment lag days which required correction of the payment lag day calculation.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-17 PAGE 5 OF 18

The first error was that the calculation of the total payment lag days incorrectly added the check clearing lag days to the average service period days. This error resulted in an overstatement of the total PSC tax payment lag days. The calculation was corrected and the format of the calculation was also revised to be consistent with the format used for other working cash components and to clearly illustrate the calculation of the payment lag days and check clearing lag days. This is shown on page 18.

Second, the monthly PSC tax payments made were incorrectly assumed to relate to the tax liability for that particular monthly period. Monthly service periods were then used as a basis of determining the payment lag days for each monthly payment. However, as determined by the Commission in Decision and Order No. 11893 (Docket No. 6999), the payment of a public service company's tax liability is paid in the year to which the liability relates. Also, as noted in the PSC Tax Law in the Hawaii Revised Statutes, Chapter 239, in cases where the total tax liability exceeds \$100,000 the tax is to be paid in 12 equal installments. Therefore, the use of monthly service periods was incorrect as the monthly payments do not represent a payment for doing business in that month. Rather, the monthly payment represents a monthly installment payment of the total tax liability due for doing business in that particular year. The service periods were revised as shown on page 18.

The third error was the use of the actual PSC tax payment amounts made to the State of Hawaii and City & County of Honolulu to determine the weighted average PSC tax payment lag days. The total tax liability for a particular year is not determined until the filing of the annual tax return in April of that year. As the annual tax liability is not known prior to this, the actual monthly installment payments made in January through April are based on estimates. The

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monthly installment payments made in May through December are then subsequently adjusted to ensure that the total of the monthly installment payments made during the year equal the tax liability filed in the annual return. Thus, the actual PSC tax payment amounts do not accurately reflect the weighting of payments made to the State of Hawaii and to the City & County of Honolulu. This resulted in a distortion of the calculation of the weighted payment lag days and has been corrected in the working cash calculation.

Hawaiian Electric Company, Inc. **Updated Rate Base Components**(\$ in thousands)

Investment in Assets			Average for	June 2007 Update
Serving Customers	12/31/2006	12/31/2007	2007	Reference
Net Cost of Plant in Service	1,331,363	1,369,678	1,350,521	p. 8
Property Held for Future Use	517	3,567	2,042	CA-IR-307
Fuel Inventory	53,084	53,084	53,084	CA-IR-214
Materials & Supplies Inventories	12,838	12,838	12,838	HECO-1703
Unamortized Net SFAS 109				
Regulatory Asset	49,429	51,399	50,414	T-15
Pension Asset	68,260	50,549	59,405	T-10
OPEB Amount	0	0	0	T-10
Unamortized System Development Costs	0	4,642	2,321	T-10
Unamortized DSG Regulatory Asset	0	0	0	p. 9
ARO Regulatory Asset	27	26	27	p. 10
Total Investments in Assets	1,515,518	1,545,783	1,530,651	
Funds from Non-Investors				
Unamortized CIAC	164,092	174,174	169,133	p. 11
Customer Advances	1,001	756	879	CA-IR-307
Customer Deposits	6,369	6,827	6,598	T-8
Accumulated Deferred Income				
Taxes	152,488	141,331	146,910	T-15
Unamortized ITC	28,523	30,022	29,273	T-15
Unamortized Gain on Sales	1,582	1,214	1,398	T-10
Total Deductions	354,055	354,324	354,189	

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HECO-1702 DOCKET NO. 2006-0386 PAGE 1 OF 1

Hawaiian Electric Company, Inc. Net Cost of Plant in Service (\$ in thousands)

Accum. Depreciation,

	Original Cost	Removal Reg. Liability, Acc. Retirement Oblig.	Net Plant In <u>Service</u>	June 2007 Update Reference
Recorded Balances - 12/31/06	2,453,556	(1,122,193)	1,331,363	
ESTIMATED CHANGES in 2007: Net Plant Additions	121,572		121,572	CA-IR-307
Cost of Removal	121,372	5,764	5,764	T-13
Salvage		(236)	(236)	T-13
Depreciation Accrual		(88,785)	(88,785)	T-13
Retirements 1	(13,005)	13,005	0	T-13
Estimated Balances - 12/31/07	2,562,123	(1,192,445)	1,369,678	
AVERAGE 2007 BALANCE			1,350,521	

¹ Original cost of estimated retirements for the respective year.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-17 PAGE 9 OF 18

HECO-1704 DOCKET NO. 2006-0386 PAGE 1 OF 1

Hawaiian Electric Company, Inc. Unamortized DSG Regulatory Asset (\$ in thousands)

		June 2007 Update Reference
RECORDED BALANCES - 12/31/06	0 (A)	
ESTIMATED CHANGES in 2007:		
DSG Contribution	0	CA-IR-214
Amortization	0	CA-IR-214
ESTIMATED BALANCE - 12/31/07	0 (B)	
AVERAGE 2007 BALANCE	0 [(A)+(B)]/2	

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Hawaiian Electric Company, Inc. Unamortized ARO Regulatory Asset (\$ in thousands)

		HECO Reference
RECORDED BALANCES - 12/31/06	27 (A)	
ESTIMATED CHANGES in 2007: Accretion & Depreciation Cost of Removal	6 (7)	
ESTIMATED BALANCE - 12/31/07	26 (B)	
AVERAGE 2007 BALANCE	[(A)+(B)]/2	

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HECO-1705 DOCKET NO. 2006-0386 PAGE 1 OF 1

Hawaiian Electric Company, Inc. Unamortized Contributions In Aid of Construction (\$ in thousands)

		June 2007 Update <u>Reference</u>
RECORDED BALANCE - 12/31/06	164,092	
ESTIMATED CHANGES in 2007:		
Cash Receipts	11,840	CA-IR-307
In-Kind Receipts	6,467	CA-IR-307
Transfer from Advances	264	CA-IR-307
Amortization	(8,489)	T-13
ESTIMATED BALANCE - 12/31/07	174,174	
AVERAGE 2007 BALANCE	169,133	

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-17 PAGE 12 OF 18

DOCKET NO. 2006-0386 PAGE 1 OF 1

HECO-1706

Not Updated Not Updated

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66 40 40

UPDATE, p. 17. p. 46 p. 46

37 37 37

Revenue Taxes - Proposed Rates Income Taxes - Present Rates Income Taxes - Proposed Rates

Revenue Taxes - Present Rates

Purchased Power

UPDATE, p. 17. p. 37 JUNE 2007

37

37

JUNE 2007

Not Updated Not Updated

Not Updated

5 (29)

39 99 NOTE A: HECO is not updating its working cash estimate at this time. The working cash estimate will be updated upon the finalization of all the updates and the recalculation of the revenue requirement. The purpose of this schedule is to illustrate the updated payment lag days.

NOTE B: Totals may not add exactly due to rounding.

Change in WORKING CASH (See NOTE A)

Total WORKING CASH (See NOTE A)

(\$ in thousands) Annual (C) (B) Payment (A) Revenue

WORKING CASH ITEMS, 2007 Hawaiian Electric Company, Inc.

(H)

(g)

(F)

(E)

(D)

	1		1			1				
	Revenue	Payment		Net	Annual		Average	Working Cash	Average	Working Cash
	Collection	Lag	Payment	Collection	Amount		Daily	Required	Daily	Required
	Lag	Workpaper	Lag	Lag	Workpaper	Annual	Amount -	(Provided) under	Amount -	(Provided) under
	(Days)	Reference	(Days)	(Days)	Reference	Amount	Present	Present Rates	Proposed	Proposed Rates
			8	(A) - (B)			(D) / 365	(C)x(E)	(D) / 365	(C)x(G)
	per HECO	HECO								
	8-L	WP-1706								
ITEMS REQUIRING WORKING CASH:	G CASH:									
							1	i	SEE NOTE A	
Fuel Purchases	37	p. 1	17	20	Not Upd	ated	•	1	•	
O&M Labor	37	p. 8	11	26	Not Updated	ated	E	E.	E	i.
		JUNE 2007								
O&M Nonlabor	37	UPDATE, p. 14.	32	5	Not Updated	ated	í.	.1):	•	0.00
		JUNE 2007								
Pension Asset Amortization	37	UPDATE, p. 16.	0	37	Not Updated	ated	•	ā	Ĭ.	ū
ITEMS PROVIDING WORKING CASH:	3 CASH:									

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-17 PAGE 13 OF 18

HECO-WP-1702 DOCKET NO. 2006-0386 PAGE 1 OF 1

Hawaiian Electric Company, Inc. Net Cost of Plant in Service (\$ in thousands)

	Original Cost	Accum Deprec	Removal Reg <u>Liability</u>	Acc. Retire. Obligation	Net Plant In Service	June 2007 Update Reference
Recorded Balances - 12/31/06	2,453,556	(959,081)	(163,020)	(92)	1,331,363	
ESTIMATED CHANGES in 2007:						
Net Plant Additions	121,572				121,572	CA-IR-307
Cost of Removal			5,764		5,764	T-13
Salvage			(236)		(236)	T-13
Depreciation Accrual		(88,785)			(88,785)	T-13
Deprec Accrual Reclass related					0	
to Cost of Removal 1		23,882	(23,882)			T-13
Accretion of ARO			6	(6)	0	
ARO Retirements			(7)	7	0	
Retirements ²	(13,005)	13,005			0	T-13
Estimated Balances - 12/31/07	2,562,123	(1,010,979)	(181,375)	(91)	1,369,678	
AVERAGE 2007 BALANCE					1,350,521	

¹ Represents the amount of removal costs that has been included in the depreciation expense that will be reclassified as a liability for financial statement purposes.

 $^{^{2}}$ Original cost of estimated retirements for the respective year.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-17 PAGE 14 OF 18

HECO-WP-1706 DOCKET NO. 2006-0386 PAGE 32 OF 48

Hawaiian Electric Company, Inc. Working Cash Study

O&M Non-Labor Payment Lag

File: Source:

	Test Year		Total Payment	
	Expense (\$000's)	% of Total	Lag Days	Weighted Average
	Note A		June 2007 Update HECO T-17, p.15.	
Pension Expense ¹	\$13,161	11%	14	2 days
OPEB Expense ²	\$5,449	5%	85 HECO-WP-1706, p. 33-36	4 days
Emission Fees ³	\$838	1%	306	2 days
EPRI Dues ⁴	\$1,608	1%	-7	days
Other Non-Labor O&M 5	\$97,033	82%	30	25 days
	\$118,090	100%		
O&M Non-Labor Payment Lag				32 days

NOTE: Totals may not add exactly due to rounding.

Note A

¹ Pension expense estimate based on 2007 Pension Accrual of \$18,029k (per HECO-1203) x 73% (based on 2005 % of Employee Benefits charged to O&M expense).

² OPEB expense estimate based on 2007 OPEB expense of \$7,465k (per HECO-1201) x 73% (based on 2005 % of Employee Benefits charged to O&M expense).

³ Emission Fees per HECO T-6.

⁴ EPRI Dues per HECO-1304

⁵ Other Non-Labor O&M = Total O&M Non-Labor expense of \$118,090k, less other items noted above. Total O&M non-labor expense presented here has not been updated from the original estimate filed in direct testimony.

Hawaiian Electric Company Working Cash Study

Pension & OPEB Payment Lag

File: SA_Company/RegulatoryAffairs/HECO TY 2007 Rate Case\Test Year Updates – June 2007/L17 June 2007 Update p.14-15 Non-Labor OM.xis/Pension_OPEB Payment Lag
Source: 2007 Payments and forecast payments. Information per Treasury wire transfer files.

PENSION

SERVICE PERIOD

	BEGIN	END	AVE SERVICE PERIOD (DAYS)	PAYMENT DATE ¹	END DATE TO PAY DATE (DAYS)	PAYMENT LAG DAYS
January	1/1/07	1/31/07	15.5	1/31/07	(0.5)	15.0
February	2/1/07	2/28/07	14.0	2/28/07	(0.5)	13.5
March	3/1/07	3/31/07	15.5	3/30/07	(1.5)	14.0
April	4/1/07	4/30/07	15.0	4/30/07	(0.5)	14.5
May	5/1/07	5/31/07	15.5	5/31/07	(0.5)	15.0
June	6/1/07	6/30/07	15.0	6/29/07	(1.5)	13.5
July	7/1/07	7/31/07	15.5	7/31/07	(0.5)	15.0
August	8/1/07	8/31/07	15.5	8/31/07	(0.5)	15.0
September	9/1/07	9/30/07	15.0	9/28/07	(2.5)	12.5
October	10/1/07	10/31/07	15.5	10/31/07	(0.5)	15.0
November	11/1/07	11/30/07	15.0	11/30/07	(0.5)	14.5
December	12/1/07	12/31/07	15.5	12/28/07	(3.5)	12.0

Pension Payment Lag 14.1

OPEB		E PERIOD	AVE SERVICE PERIOD	PAYMENT DATE 2	END DATE TO PAY DATE	PAYMENT	DIVIDICE (A) 3	WEIGHTED
Tommore	BEGIN 1/1/07	END 1/31/07	(DAYS) 15.5	3/30/07	(DAYS) 57.5	TAG DAYS	INVOICE (\$) ³ 56,250	4,106,250
January	1/1/07		15.5				589,736	
Eshavoru	2/1/07	1/31/07 2/28/07	14.0	6/29/07 3/30/07	148.5 29.5	164.0 43.5	56,250	96,716,650 2,446,875
February							2000	
	2/1/07	2/28/07	14.0	6/29/07	120.5	134.5	589,736	79,319,448
March	3/1/07	3/31/07	15.5	3/30/07	(1.5)	14.0	56,250	787,500
	3/1/07	3/31/07	15.5	6/29/07	89.5	105.0	589,736	61,922,245
April	4/1/07	4/30/07	15.0	6/29/07	59.5	74.5	56,250	4,190,625
	4/1/07	4/30/07	15.0	6/29/07	59.5	74.5	589,736	43,935,307
May	5/1/07	5/31/07	15.5	6/29/07	28.5	44.0	56,250	2,475,000
	5/1/07	5/31/07	15.5	6/29/07	28.5	44.0	589,736	25,948,369
June	6/1/07	6/30/07	15.0	6/29/07	(1.5)	13.5	56,250	759,375
	6/1/07	6/30/07	15.0	6/29/07	(1.5)	13.5	589,736	7,961,432
July	7/1/07	7/31/07	15.5	9/28/07	58.5	74.0	56,250	4,162,500
	7/1/07	7/31/07	15.5	12/28/07	149.5	165.0	589,736	97,306,386
August	8/1/07	8/31/07	15.5	9/28/07	27.5	43.0	56,250	2,418,750
	8/1/07	8/31/07	15.5	12/28/07	118.5	134.0	589,736	79,024,580
September	9/1/07	9/30/07	15.0	9/28/07	(2.5)	12.5	56,250	703,125
	9/1/07	9/30/07	15.0	12/28/07	88.5	103.5	589,736	61,037,642
October	10/1/07	10/31/07	15.5	12/28/07	57.5	73.0	56,250	4,106,250
	10/1/07	10/31/07	15.5	12/28/07	57.5	73.0	589,736	43,050,704
November	11/1/07	11/30/07	15.0	12/28/07	27.5	42.5	56,250	2,390,625
	11/1/07	11/30/07	15.0	12/28/07	27.5	42.5	589,736	25,063,766
December	12/1/07	12/31/07	15.5	12/28/07	(3.5)	12.0	56,250	675,000
	12/1/07	12/31/07	15.5	12/28/07	(3.5)	12.0	589,747	7,076,960
							7,751,839	657,585,363

OPEB Payment Lag 84.8

¹ HECO is currently not making pension payments however, is anticipating making monthly payments upon adoption of the pension tracking mechanism. Dates listed are the dates the pension payments would have been or will be wired if the pension tracking mechanism is implemented.

 $^{^2}$ HECO is currently making quarterly OPEB payments. Dates listed are the dates in the test year the OPEB payment was wired or is scheduled to be wired.

³ As noted in footnote 2 above, OPEB payments are made quarterly. However, OPEB expense is recognized monthly. In order to capture the appropriate payment lag days the amounts shown in this column represent the portion of the quarterly payment recognized in the that service period. Therefore, the sum of the amounts with the same payment date represent the total quarterly payment made.

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Hawaiian Electric Company, Inc.

Working Cash Study

Pension Amortization Payment Lag

File:

S:_Company\RegulatoryAffairs\HECO TY 2007 Rate Case\Test Year Updates – June 2007\T-17 June 2007 Update\[T-17 June 2007 Update\partial pdate = pdate Source: Per Supporting Worksheets

Test Year Expense **Total Payment** (\$000's) % of Total Lag Days Weighted Average Note A Pension Amortization ¹ 0 \$5,055 100% .00 days \$5,055 100%

Payment Lag .00 days

NOTE: Totals may not add exactly due to rounding.

Note A

¹ Pension amortization expense estimate per June 2007 update HECO T-10.

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-17 PAGE 17 OF 18

HECO-WP-1706 DOCKET NO. 2006-0386 PAGE 43 OF 48

Hawaiian Electric Company, Inc. Working Cash Study

Revenue Tax Payment Lag

File:

S:_Company\RegulatoryAffairs\HECO TY 2007 Rate Case\Test Year Updates – June 2007\T-17 June 2007 Update\[T-17 June 2007 Update\[T-17 June 2007 Update p. 17-18 Re

Source:

Per Supporting Worksheets

	Effective Rate	% of Total	Total Payment Lag Days	Weighted Average
			June 2007 Update HECO T-17, p.18.	-
Public Service Company Tax	5.885%	66%	HECO-WP-1706,	-1 days
Franchise Royalty Tax	2.500%	28%	p. 45 214	60 days
Public Utility Commission Fees	0.500%	6%		6 days
•	8.885%	100%	- -	*
Revenue Tax Payment Lag	-		*	66 days

NOTE: Totals may not add exactly due to rounding.

References:

Tax Rates: Current Revenue Tax rates

JUNE 2007 UPDATE DOCKET NO. 2006-0386 HECO T-17 PAGE 18 OF 18

HECO-WP-1706 DOCKET NO. 2006-0386 PAGE 44 OF 48 UPDATED: 6/29/07

Hawaiian Electric Company Working Cash Study Revenue Tax Payment Lag

File: $S:\ _Company\\ Regulatory\\ Affairs\\ HECO\ TY\ 2007\ Rate\ Case\\ Test\ Year\ Updates\\ -June\ 2007\\ T-17\ June\ 2007\ Update\\ [T-17\ June\ 2007\ Update\\ [T-17\ June\ 2007\ Update\\ -D-17-18\ Revenue\ Taxes.xls]\\ Summary\ Update\\ Summary\ Update\\ -D-17-18\ Update\\ -D$

Source:

PUBLIC SERICE COMPANY (PSC) TAX

	SERVIC	E PERIOD							(A)	(B)	(C) = (A) X (B)
CITY & COUNTY of HONOLULU	BEGIN	END	AVE SERVICE PERIOD (DAYS)	PAYMENT DATE	END DATE TO PAY DATE (DAYS)	PAYMENT LAG DAYS	DATE CHECK CLEARED	CHECK CLEARING LAG (DAYS)	TOTAL LAG DAYS	INVOICE (\$) (Note 1)	DOLLAR DAYS
PSC Tax - January	1/1/05	12/31/05	182.5	1/4/05	(361.5)	(179.0)	1/12/05	8.0	(171.0)	320	(54,720)
PSC Tax - February	1/1/05	12/31/05	182.5	2/3/05	(331.5)	(149.0)	2/15/05	12.0	(137.0)	320	(43,840)
PSC Tax - March	1/1/05	12/31/05	182.5	3/3/05	(303.5)	(121.0)	3/14/05	11.0	(110.0)	320	(35,200)
PSC Tax - April	1/1/05	12/31/05	182.5	4/7/05	(268.5)	(86.0)	4/13/05	6.0	(80.0)	320	(25,600)
PSC Tax - May	1/1/05	12/31/05	182.5	5/6/05	(239.5)	(57.0)	5/12/05	6.0	(51.0)	320	(16,320)
PSC Tax - June	1/1/05	12/31/05	182.5	6/2/05	(212.5)	(30.0)	6/14/05	12.0	(18.0)	320	(5,760)
PSC Tax - July	1/1/05	12/31/05	182.5	7/6/05	(178.5)	4.0	7/13/05	7.0	11.0	320	3,520
PSC Tax - August	1/1/05	12/31/05	182.5	8/2/05	(151.5)	31.0	8/12/05	10.0	41.0	320	13,120
PSC Tax - September	1/1/05	12/31/05	182.5	8/30/05	(123.5)	59.0	9/13/05	14.0	73.0	320	23,360
PSC Tax - October	1/1/05	12/31/05	182.5	10/4/05	(88.5)	94.0	10/14/05	10.0	104.0	320	33,280
PSC Tax - November	1/1/05	12/31/05	182.5	11/3/05	(58.5)	124.0	11/15/05	12.0	136.0	320	43,520
PSC Tax - December	1/1/05	12/31/05	182.5	12/6/05	(25.5)	157.0	12/13/05	7.0	164.0	320	52,480
									Name of the Park	3,840	(12,160)
PSC Tax Payment Lag for C&C of	of Honolul	lu (INFO C	ONLY)								(3.2)
	SERVIC	E PERIOD							(A)	(B)	(C) = (A) X (B)
	SERVIC	LILIGOD	AVE		END DATE				(21)	(2)	(C) (H) H (D)
			SERVICE		TO PAY		DATE	CHECK			
			PERIOD	PAYMENT	DATE	PAYMENT	CHECK	CLEARING	TOTAL	INVOICE (\$)	
Hawaii State Tax Collector	BEGIN	END	(DAYS)	DATE	(DAYS)	LAG DAYS	CLEARED	LAG (DAYS)		(Note 1)	DOLLAR DAYS
PSC Tax - January		12/31/05	182.5	1/4/05	(361.5)		1/13/05	9.0	(170.0)	680	(115,600)
PSC Tax - February	4.0000000000000000000000000000000000000	12/31/05	182.5	2/3/05	(331.5)	(149.0)	2/22/05	19.0	(130.0)	680	(88,400)
PSC Tax - March		12/31/05	182.5	3/3/05	(303.5)	100	3/15/05	12.0	(109.0)	680	(74,120)
PSC Tax - April		12/31/05	182.5	4/7/05	(268.5)	(86.0)	4/19/05	12.0	(74.0)	680	(50,320)
PSC Tax - May		12/31/05	182.5	5/6/05	(239.5)	(57.0)	5/17/05	11.0	(46.0)	680	(31,280)
PSC Tax - June		12/31/05	182.5	6/2/05	(212.5)	(30.0)	6/15/05	13.0	(17.0)	680	(11,560)
PSC Tax - July		12/31/05	182.5	7/6/05	(178.5)		7/15/05	9.0	13.0	680	8,840
PSC Tax - August		12/31/05	182.5	8/2/05	(151.5)		8/17/05	15.0	46.0	680	31,280
PSC Tax - September		12/31/05	182.5	8/30/05	(123.5)		9/15/05	16.0	75.0	680	51,000
PSC Tax - October		12/31/05	182.5	10/4/05	(88.5)	94.0	10/20/05	16.0	110.0	680	74,800
PSC Tax - November		12/31/05	182.5	11/3/05	(58.5)	124.0	11/18/05	15.0	139.0	680	94,520
PSC Tax - December	1/1/05	12/31/05	182.5	12/6/05	(25.5)	157.0	12/16/05	10.0	167.0	680	113,560
									8	8,160	2,720
PSC Tax Payment Lag for Hawai	i State Ta	x (INFO O	NLY)								0.3
									10	12,000	(9,440)
PSC Tax Payment Lag (incld C	ounty & S	State)								(C)/(B)	(0.8)

PSC Tax Payment Lag (incld County & State)

Note 1: PSC Tax Payments

Ratio 1.885% County of Honolulu 32% 4.000% Hawaii State Tax Collector 68% PSC Rate 5.885%

The PSC Tax rate is 5.885% of which 1.885% is payable to the County of Honolulu and 4% is paid to the Hawaii State Tax Collector in accordance with HRS Section 239-5. The amounts paid to each party are based on a theoretical monthly payment of \$1,000 split according to the ratio determined above. This captures the weighting of payments to the County and the State.